# SECTION 11

# BLOCK DIAGRAMS AND SCHEMATICS

## 11.0 GENERAL

This section contains all the Block Diagrams and Schematics, pertinent to Corometrics' **Model 115 Fetal Monitor.** The information provided in this section references both single-cardiotach and dual-cardiotach capability as well as the two optional Recorder Boards (6808 and 6666). A composite listing of all Diagrams and Schematics appears in the Table of Contents of this manual.

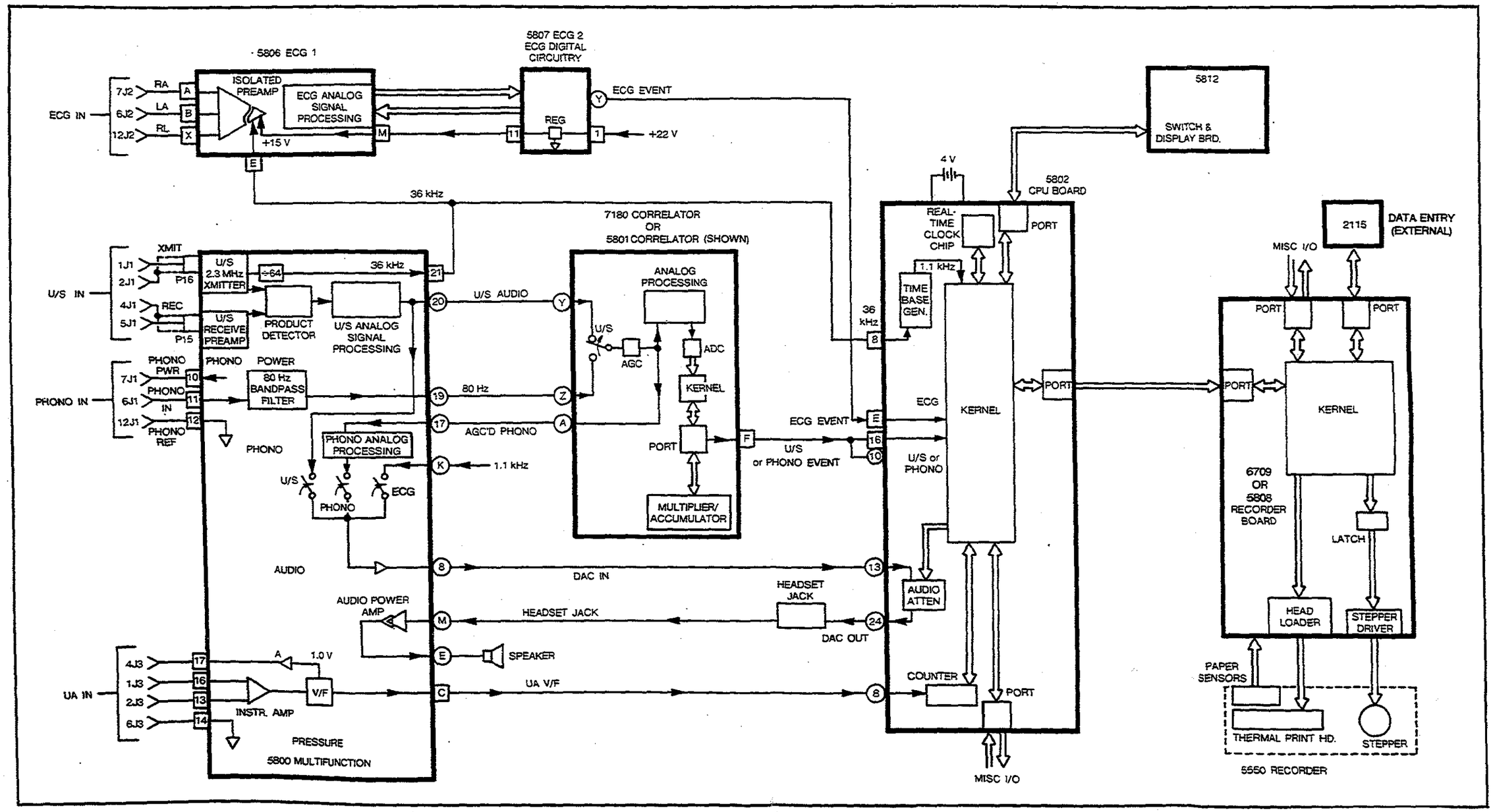
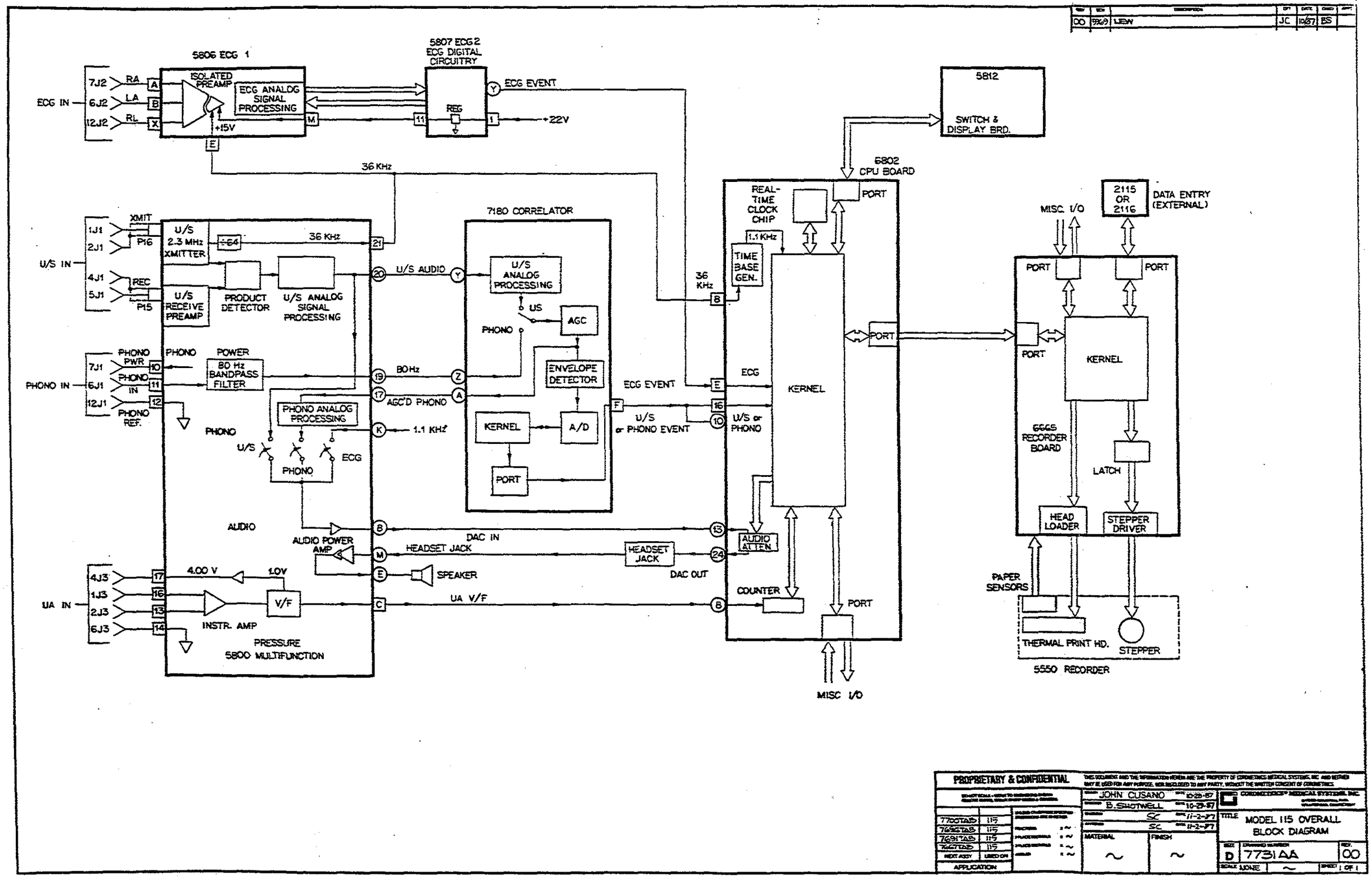



DIAGRAM 11-1
SYSTEM LAYOUT (SINGLE-CARDIOTACH)




| REV | ECO | DESCRIPTION | BY | DATE | CHKD | APPR |
|---|---|---|---|---|---|---|
| 00 | 9969 | NEW | JC | 10/97 | BS | |

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| | |
|---|---|
| DRAWN | JOHN CUSANO 10-28-97 |
| DESIGN | B. SHOTWELL 10-29-97 |
| CHECKED | SC 11-2-97 |
| APPROVED | SC 11-2-97 |

CORMETECH MEDICAL SYSTEMS, INC.

TITLE: MODEL 115 OVERALL BLOCK DIAGRAM

| 7700TAB | 115 |
|---|---|
| 7692TAB | 115 |
| 7691TAB | 115 |
| 7667TAB | 115 |
| NEXT ASSY | USED ON |
| APPLICATION | |

MATERIAL: ~ FINISH: ~

SIZE D | DRAWING NUMBER 7731AA | REV. 00 | SCALE NONE | SHEET 1 OF 1

DIAGRAM 11-2
SYSTEM LAYOUT (DUEL-CARDIOTACH)

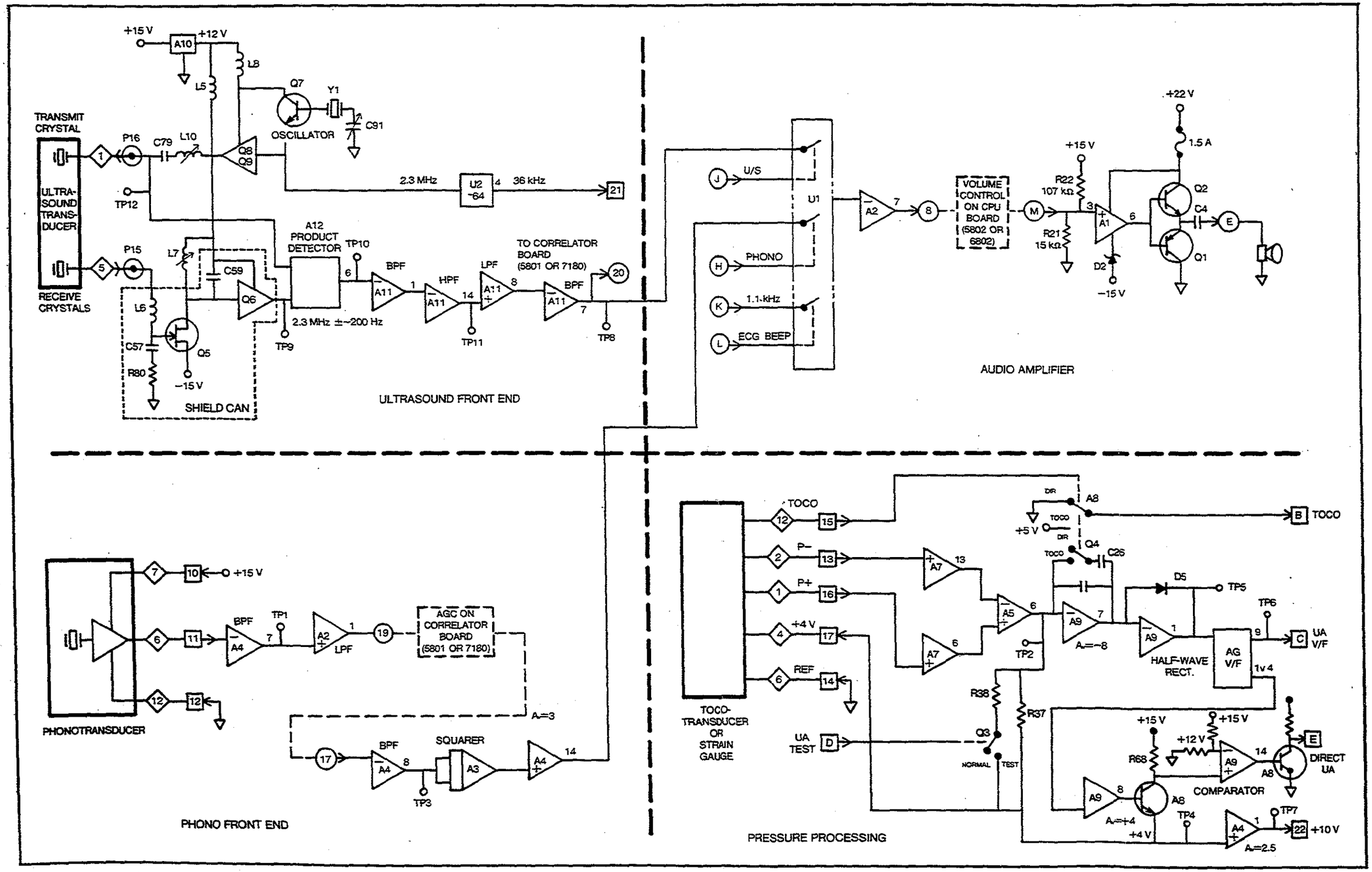



DIAGRAM 11-3
5800 MULTIFUNCTION BOARD

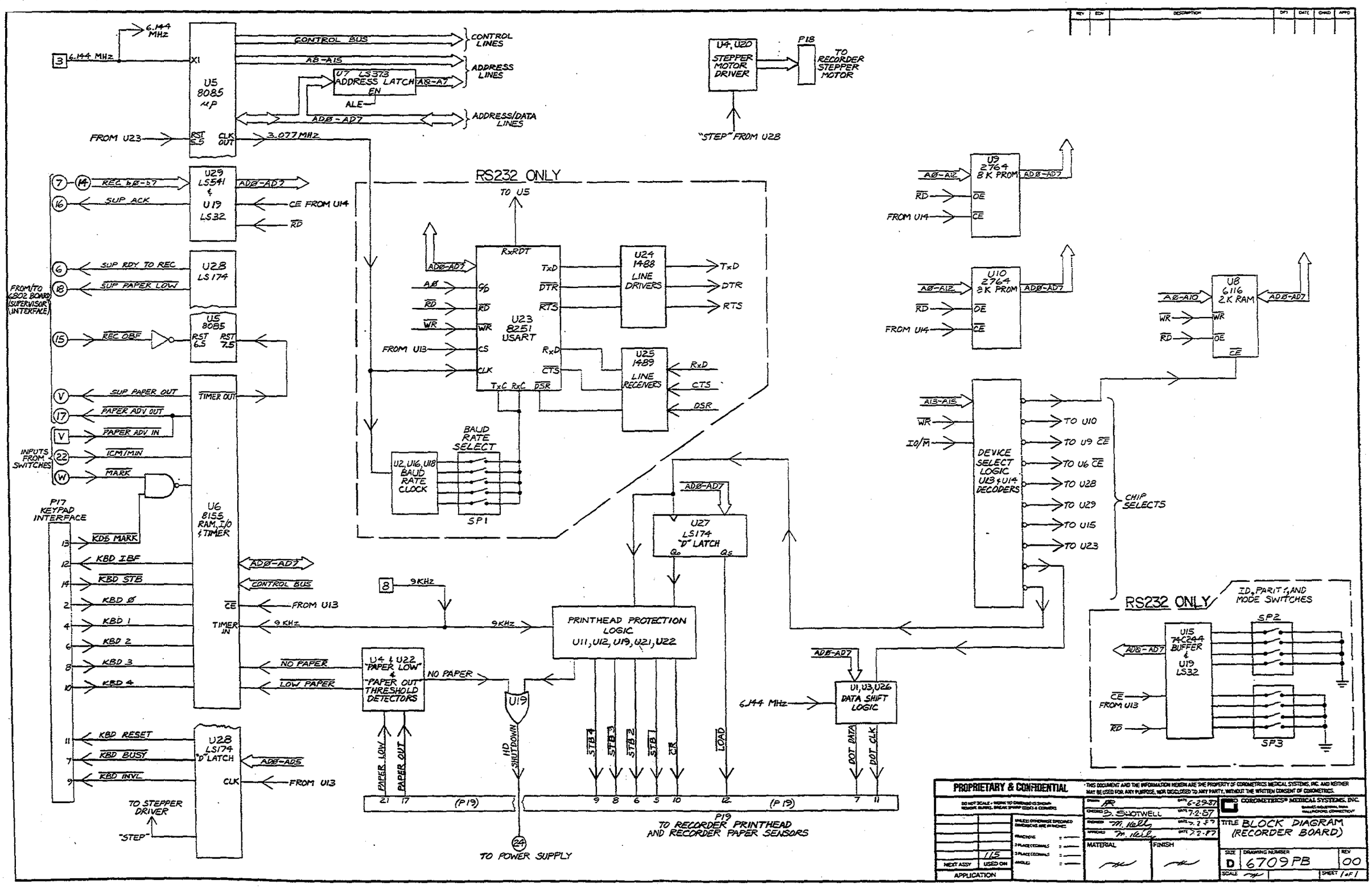
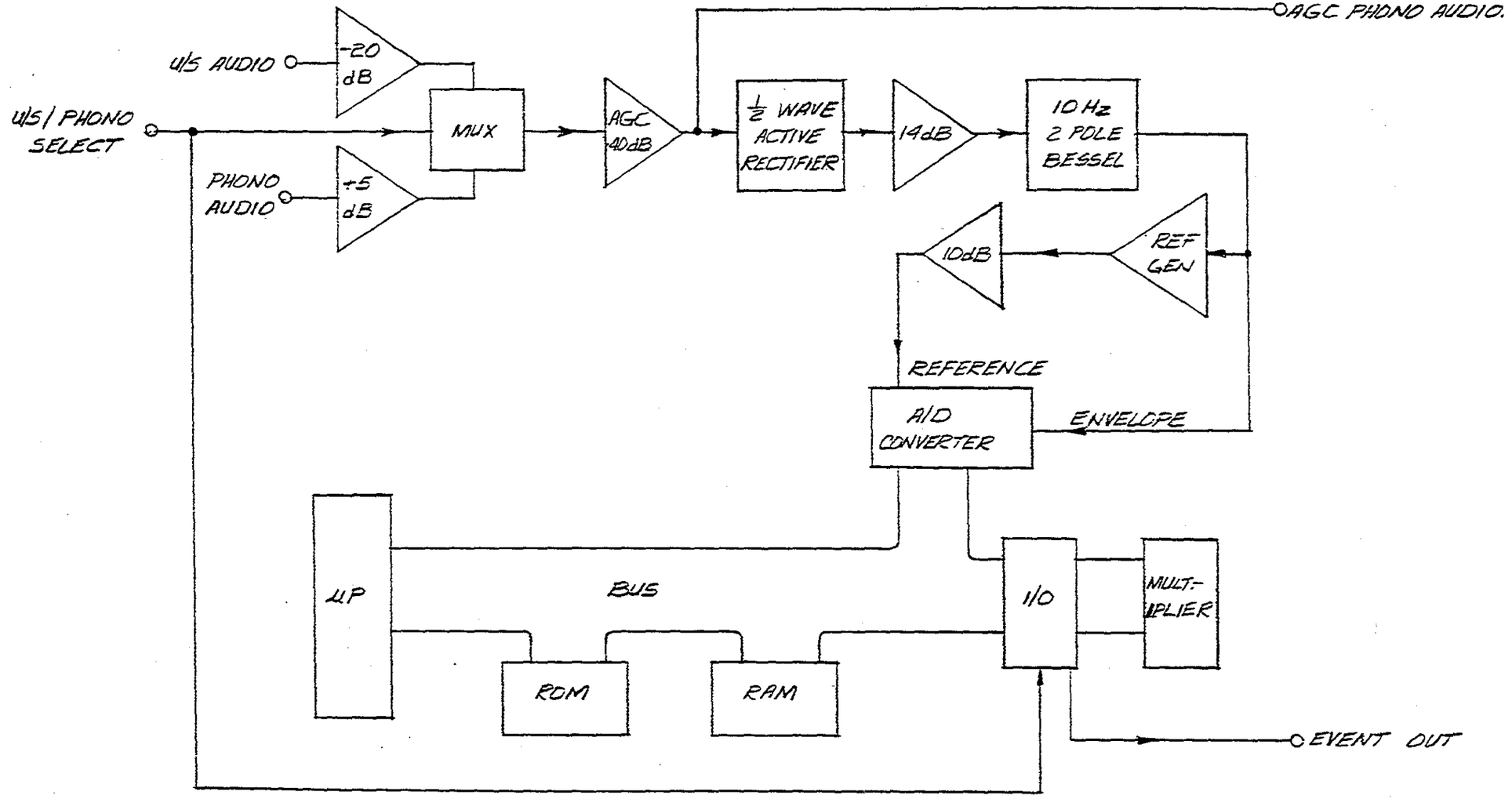



DIAGRAM 11-4
RECORDER BOARD (5808, 6709, 6808, 6665, or 6666)

| REVISIONS | | | |
|---|---|---|---|
| SYM | DESCRIPTION | DATE | APPROVAL |
| 00 | NEW | 1-30-89 | |

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| | |
|---|---|
| | |
| | |
| | |
| | |
| | |
| | |
| | 115 |
| NEXT ASSY | USED ON |
| APPLICATION | |

MATERIAL

FINISH

DRAWN Happy Teegarden DATE 1-30-89
CHECKED DATE 1/31/89
ENGINEER DATE 1/31/89
APPROVED DATE 1/31/89

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ±
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES ±

COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

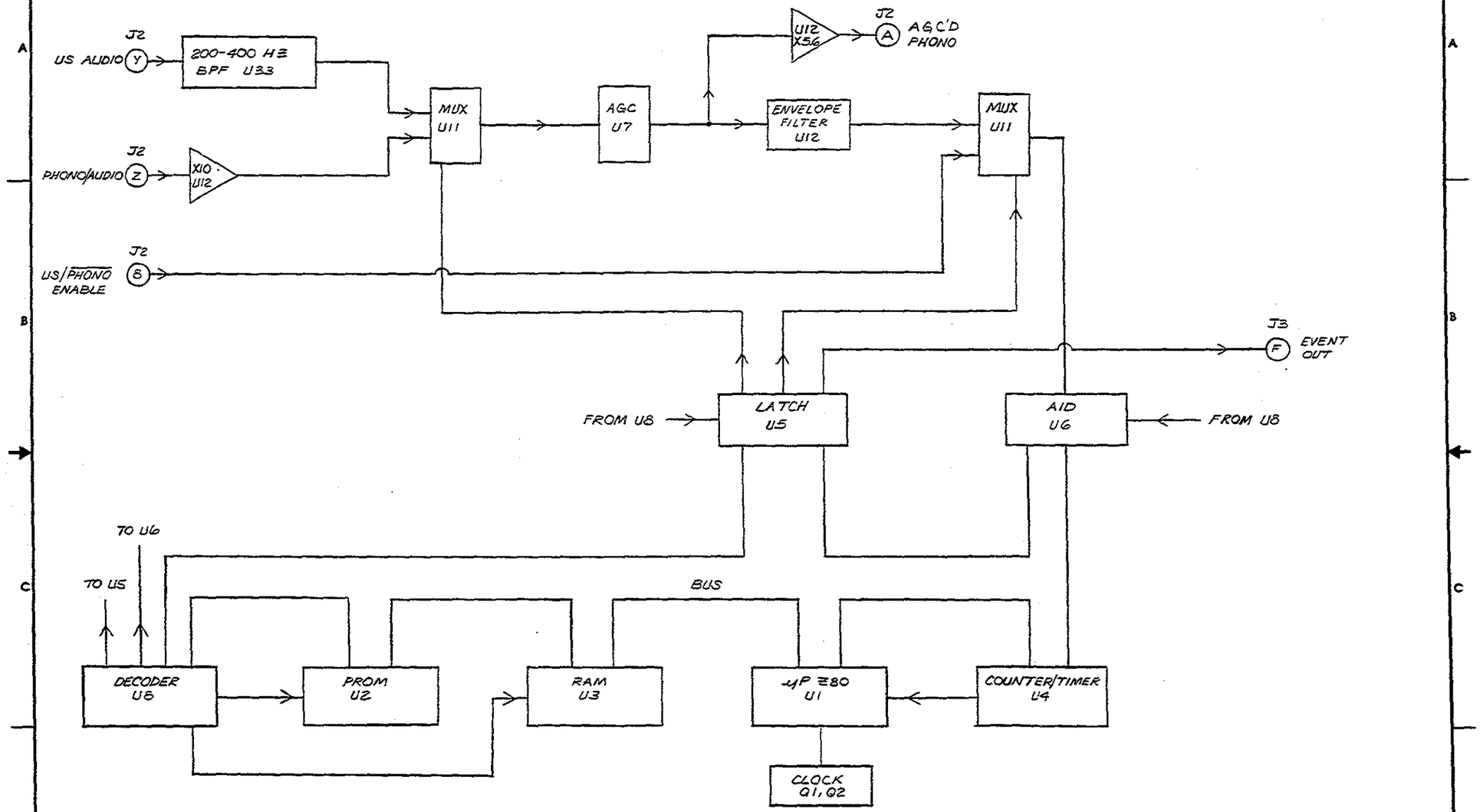
TITLE: CORRELATOR BLOCK DIAGRAM

| SIZE | DRAWING NUMBER | REV. |
|---|---|---|
| B | 5801 BB | 00 |

SCALE — SHEET 1 of 1

DIAGRAM 11-5
5801 CORRELATOR BOARD

| REV | ECN | DESCRIPTION | DFT | DATE | CHKD | APPD |
|---|---|---|---|---|---|---|
| 00 | 5972 | NEW | R.B. | 9/28/87 | [illegible] | [illegible] |

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DO NOT SCALE - WORK TO DIMENSIONS SHOWN
REMOVE BURRS, BREAK SHARP EDGES & CORNERS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS =
2 PLACE DECIMALS =
3 PLACE DECIMALS =
ANGLES =

| NEXT ASSY | USED ON |
|---|---|
| C7180B | 115 |

APPLICATION

| | | |
|---|---|---|
| DRAWN | R. Barnes | DATE 9/25/87 |
| CHECKED | D. SHOTWELL | DATE 10-12-87 |
| ENGINEER | M. Kelly | DATE 10-13-87 |
| APPROVED | D. Barnes | DATE 10.13.87 |

COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

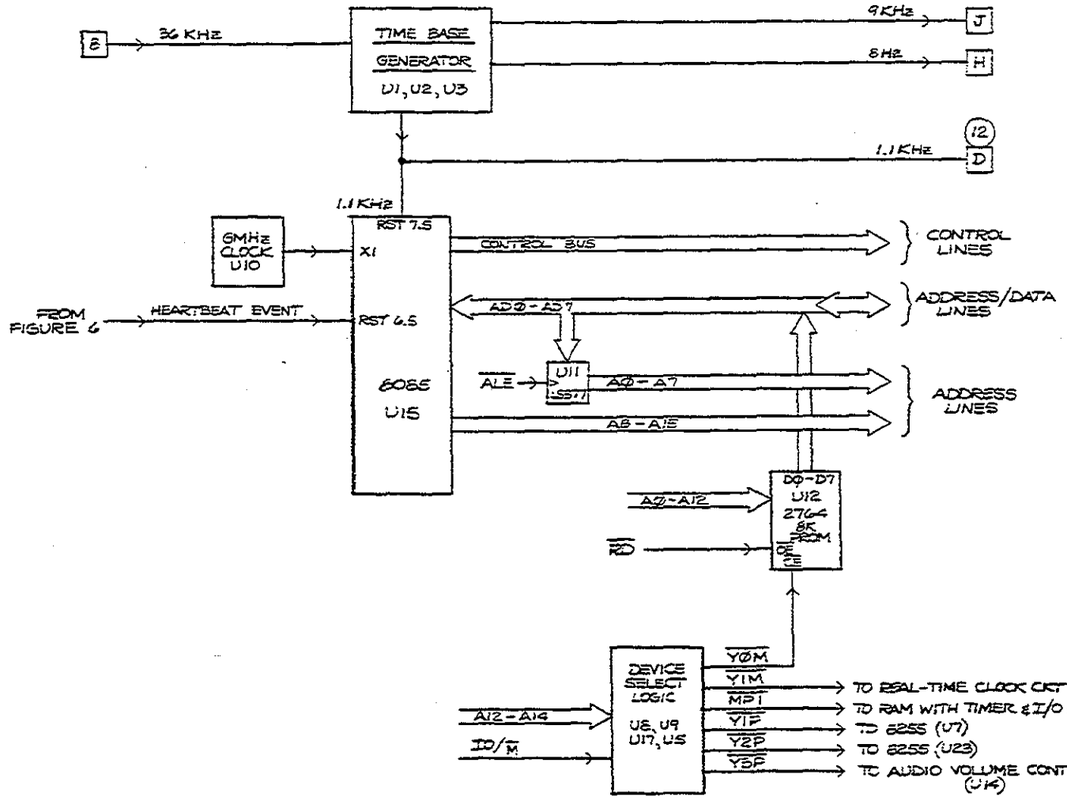
TITLE: BLOCK DIAGRAM CORRELATOR II

MATERIAL | FINISH

| SIZE | DRAWING NUMBER | REV. |
|---|---|---|
| C | 7180 AB | 00 |

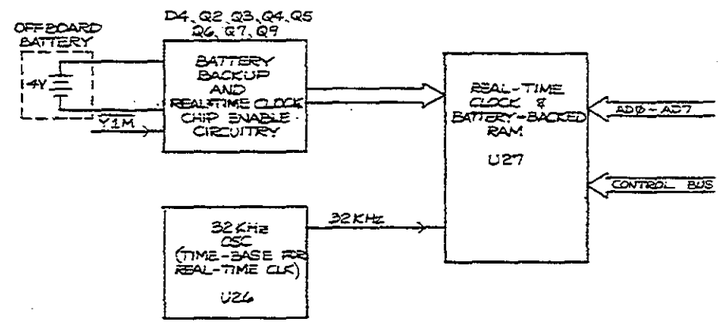
SCALE | SHEET 1 OF 1

| REVISIONS | | | | |
|---|---|---|---|---|
| SYM | DESCRIPTION | | DATE | APPROVAL |
| 00 | NEW | KSH | 1/84 | |



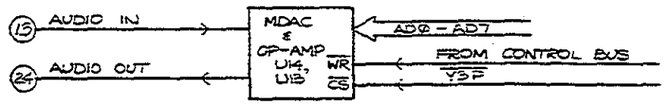

MICROPROCESSOR TIMING, PROM & DEVICE SELECT LOGIC

FIGURE 1


OFF BOARD BATTERY
4V
.1M
D4, Q2, Q3, Q4, Q5 Q6, Q7, Q9
BATTERY BACKUP AND REAL-TIME CLOCK CHIP ENABLE CIRCUITRY
REAL-TIME CLOCK & BATTERY-BACKED RAM U27
AD0-AD7
CONTROL BUS
32 KHz OSC (TIME-BASE FOR REAL-TIME CLK) U26
32 KHz

REAL-TIME CLOCK & BATTERY-BACKED RAM

FIGURE 2




ELECTRONIC VOLUME CONTROL

FIGURE 3

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| | | | |
|---|---|---|---|
| MATERIAL | | DRAWN | DATE 1/4/84 |
| | | CHECKED | DATE 2/1/84 |
| | | ENGINEER | DATE 2/1/84 |
| | | APPROVED | DATE 2/2/84 |
| FINISH | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | |
| | | FRACTIONS | |
| | | 2 PLACE DECIMALS | |
| | | 3 PLACE DECIMALS | : N |
| | | ANGLES | |
| NEXT ASSY | USED ON | APPLICATION | |
| | 115 | | |

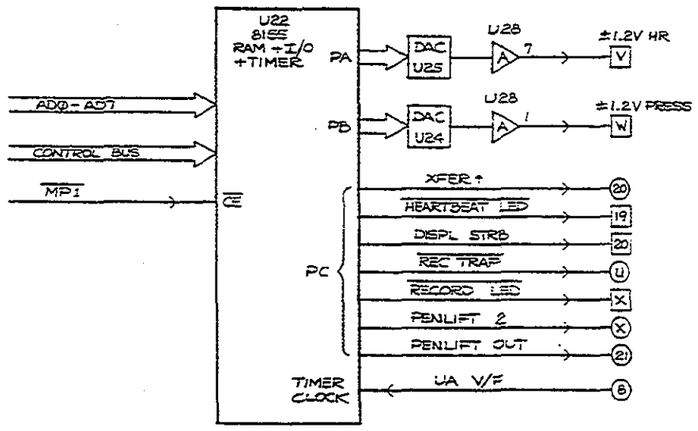
COROMETRICS MEDICAL SYSTEMS, INC.
BRIDGE INDUSTRIAL PARK WALLINGFORD, CONNECTICUT

TITLE: BLOCK DIAGRAM 115 CPU BOARD (5802)

| SIZE | DRAWING NUMBER | REV. |
|---|---|---|
| D | 5802AB | 00 |

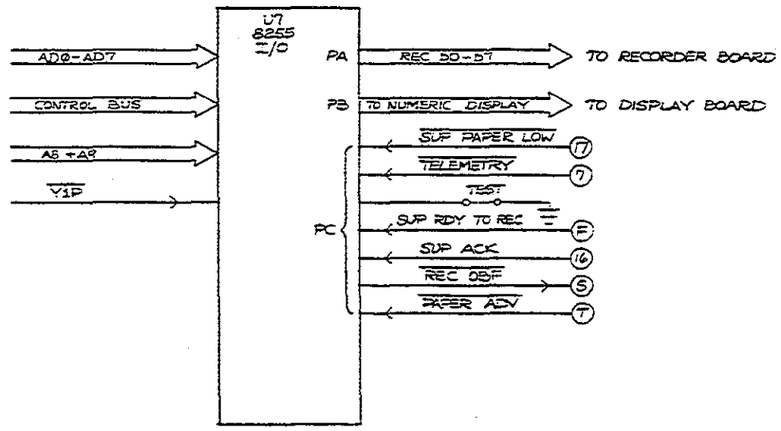
SCALE: N | SHEET 1 OF 2

| REVISIONS | | | | |
|---|---|---|---|---|
| SYM | DESCRIPTION | | DATE | APPROVAL |
| 00 | NEW | VSH | 1/84 | |



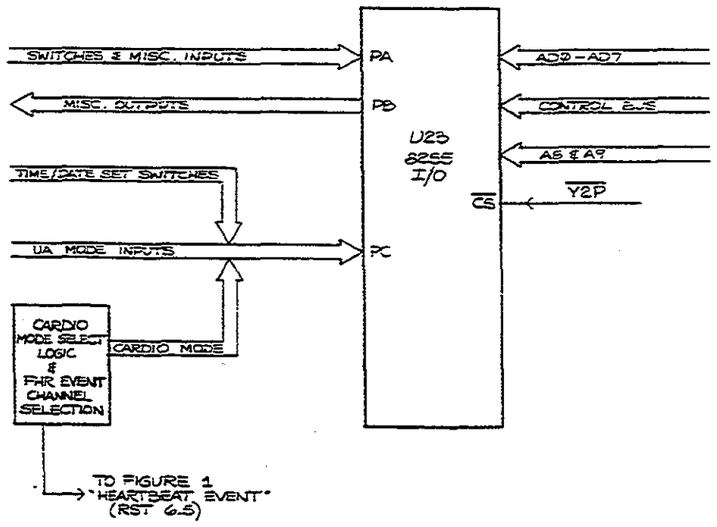

RAM + I/O + TIMER

FIGURE 4



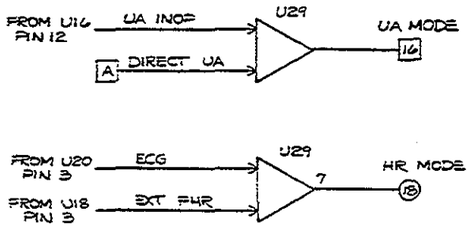

I/O PORTS

FIGURE 5




I/O PORTS

FIGURE 6




MODE OUTPUTS

FIGURE 7

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| | | | |
|---|---|---|---|
| NEXT ASSY | USED ON | MATERIAL | |
| | 115 | | |
| APPLICATION | | FINISH | |

CORO | COROMETRICS MEDICAL SYSTEMS, INC.

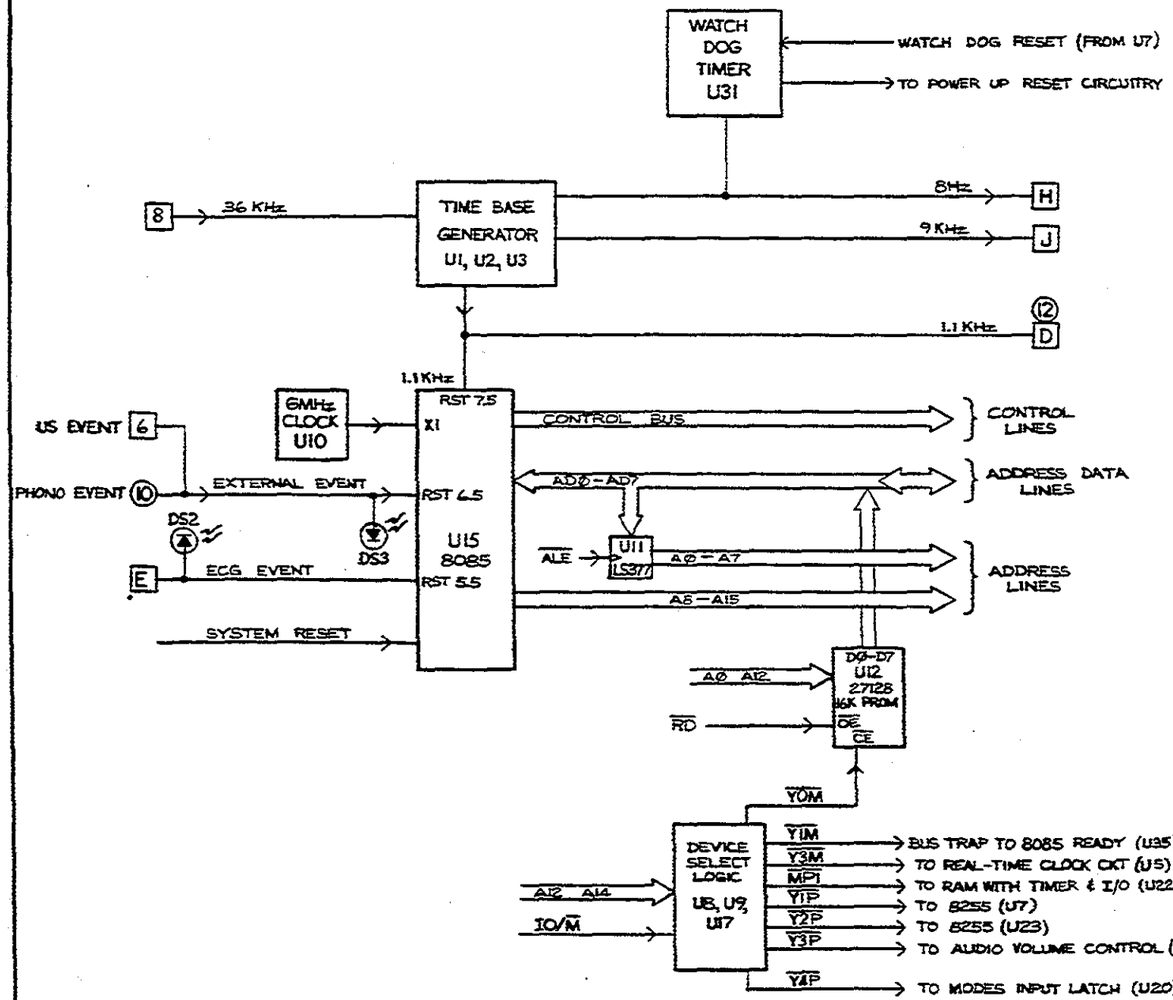
TITLE: BLOCK DIAGRAM 115 CPU BOARD (5802)

SIZE D | DRAWING NUMBER 5802AB | REV 00

SCALE NONE | SHEET 2 OF 2

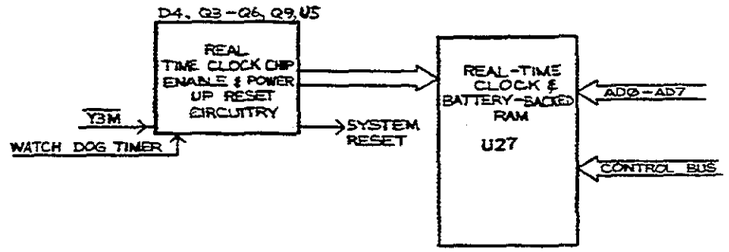
DIAGRAM 11-7B
5802 CPU BOARD CONT.

| REV | ECN | DESCRIPTION | BY | DATE | CHKD | APP'D |
|---|---|---|---|---|---|---|
| 00 | 5969 | NEW | JA | 10/23/87 | BS | |



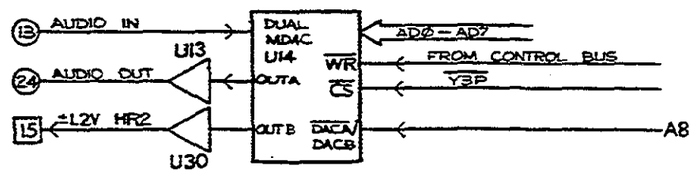

MICROPROCESSOR TIMING, PROM & DEVICE SELECT LOGIC

FIGURE 1




REAL-TIME CLOCK & BATTERY-BACKED RAM

FIGURE 2




ELECTRONIC VOLUME CONTROL

FIGURE 3

PROPRIETARY & CONFIDENTIAL

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| | | |
|---|---|---|
| DRAWN | JOE ALBANO | 10/23/87 |
| CHECKED | B. SLOTWELL | 10-30-87 |
| ENGINEER | SC | 11-2-87 |
| MFG | SC | 11-2-87 |

CORMETECH® MEDICAL SYSTEMS, INC.

| | | |
|---|---|---|
| 6802J | 115 | |
| 6802H | 115 | |
| NEXT ASSY | USED ON | |
| APPLICATION | | |

MATERIAL: ~

FINISH: ~

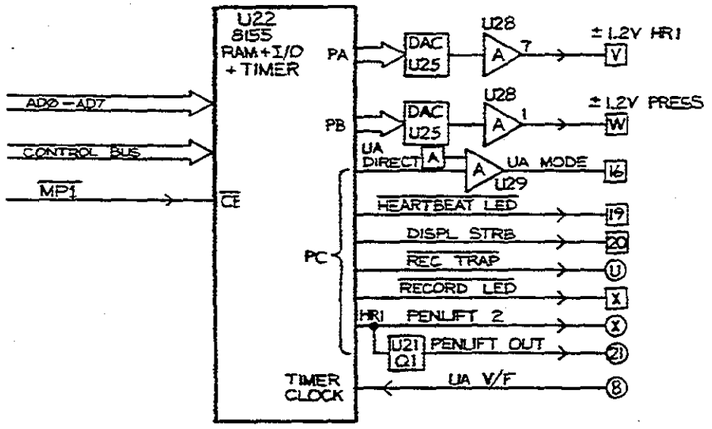
TITLE: BLOCK DIAGRAM, 115 CPU BOARD DUAL CARDIO.

SIZE D | DRAWING NUMBER 6802AB | REV 00

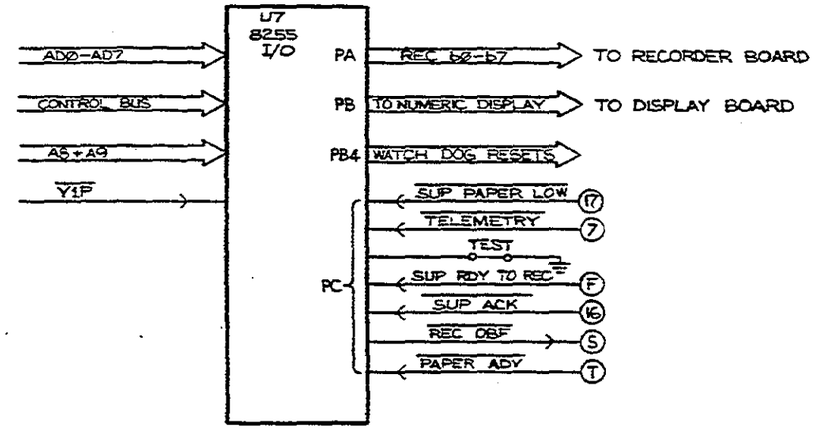
SCALE ~ | SHEET 1 OF 2

DIAGRAM 11-8A
6802 CPU BOARD

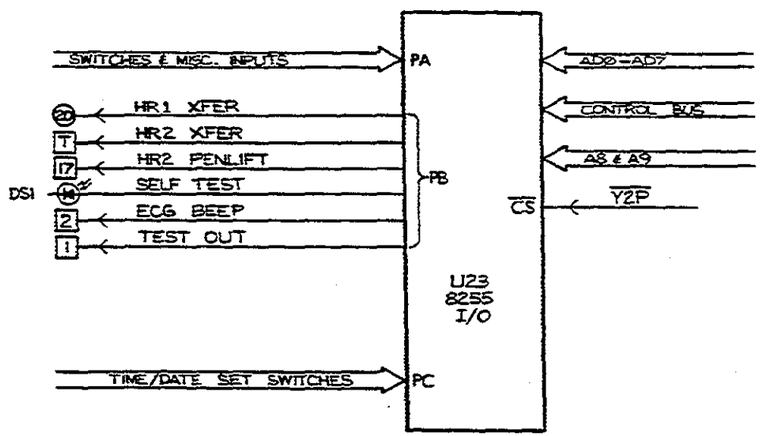
| SHT | ECN | DESCRIPTION | DFT | DATE | CHKD | APPD |
|---|---|---|---|---|---|---|
| 00 | 5969 | NEW | JA | 10/20/87 | BS | |



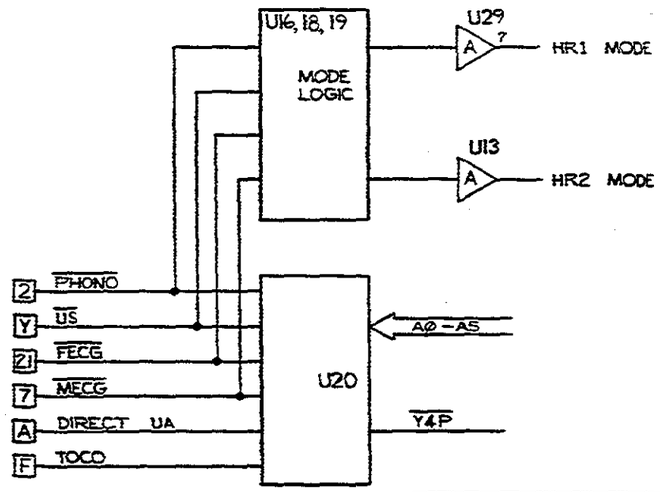

RAM + I/O + TIMER
FIGURE 4




I/O PORTS
FIGURE 5




I/O PORTS
FIGURE 6




MODE I/O
FIGURE 7

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| | | |
|---|---|---|
| DRAWN | JOE ALBANO | 10-20-87 |
| CHECKED | D. SWOTWELL | 10-29-87 |
| ENGR | SC | 11-2-87 |
| MFG | SC | 11-2-87 |

COROMETRICS® MEDICAL SYSTEMS, INC.
WALLINGFORD, CONNECTICUT

TITLE
BLOCK DIAGRAM – 115
CPU BRD. DUAL CARDIO.

| SIZE | DRAWING NUMBER | REV |
|---|---|---|
| D | 6802AB | 00 |

SCALE NONE — SHEET 2 OF 2

MATERIAL: N/A — FINISH: N/A

| | | |
|---|---|---|
| 6802J | 115 | |
| 6802H | 115 | |
| NEXT ASSY | USED ON | |

APPLICATION

DIAGRAM 11-8B
6802 CPU BOARD CONT.

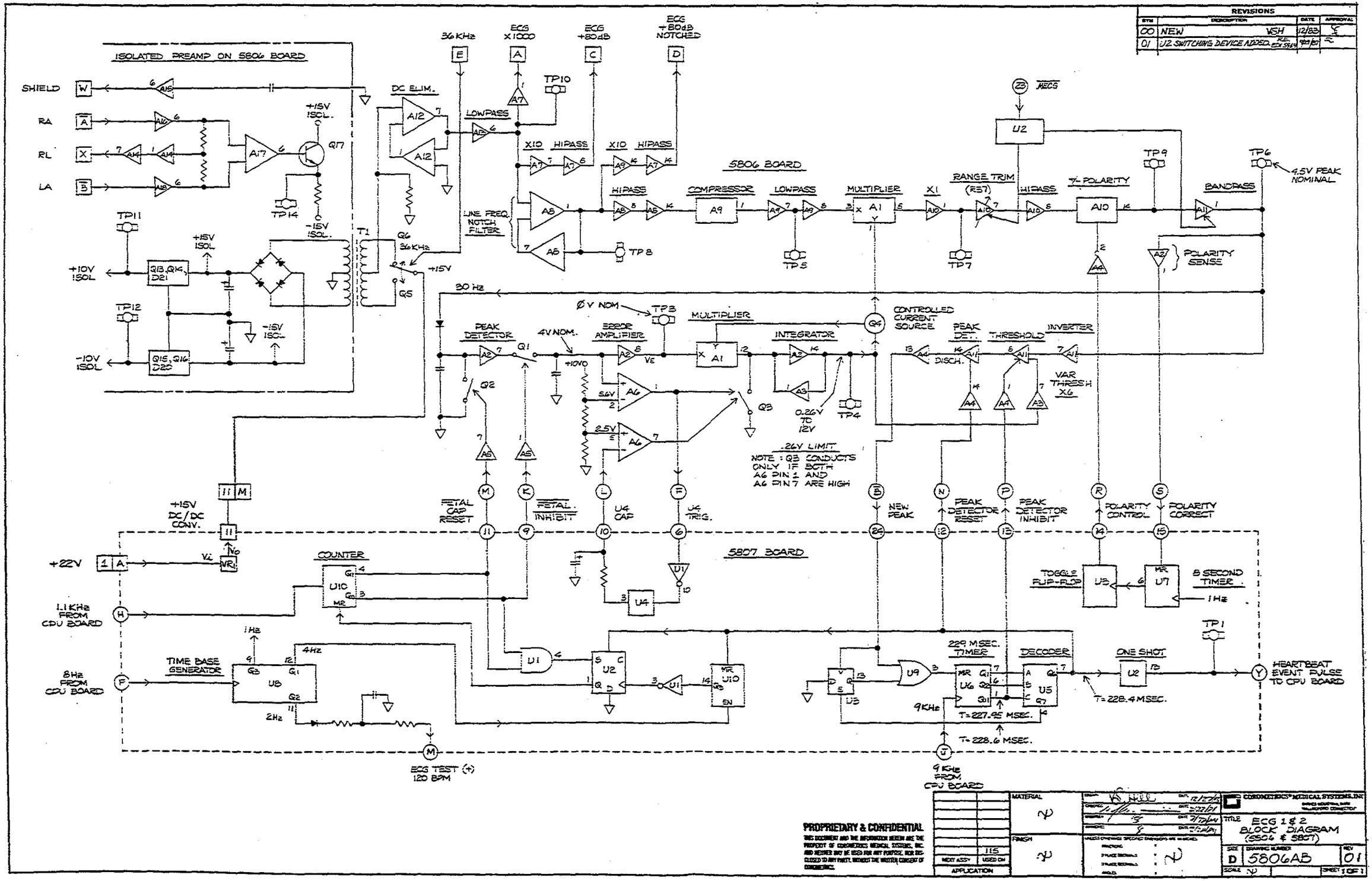
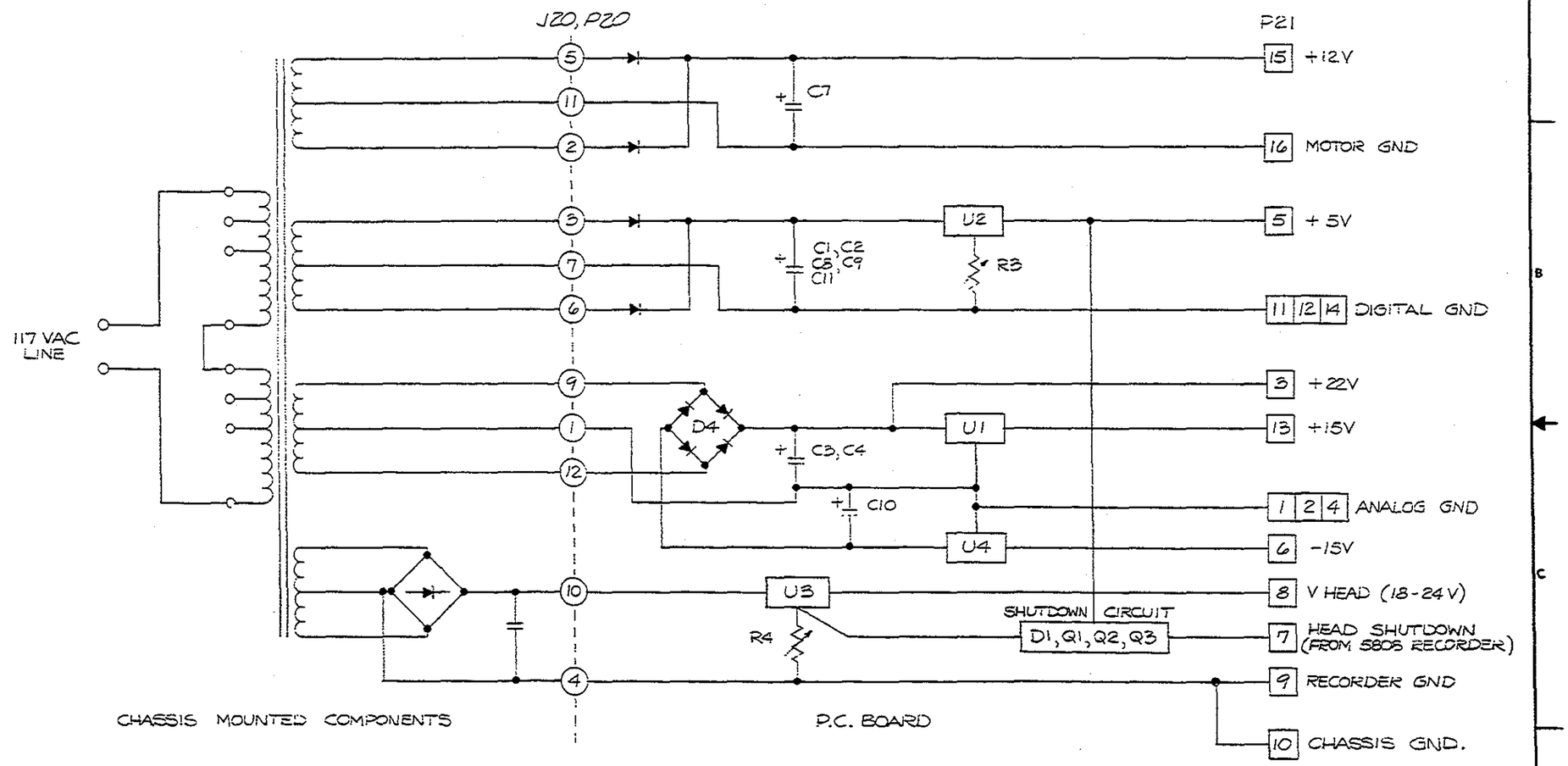



DIAGRAM 11-9
5806+5807 ECG 1 + ECG 2 BOARDS

| REVISIONS | | | |
|---|---|---|---|
| SYM | DESCRIPTION | DATE | APPROVAL |
| 00 | NEW ECN 6229 | 6/8/88 | |

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| | |
|---|---|
| NEXT ASSY | USED ON |
| | 115 |
| APPLICATION | |

MATERIAL: N

FINISH: N

DRAWN: [illegible] DATE 6/2/88
CHECKED: S. SHOTWELL DATE 6/8/88
ENGINEER: D.K. Bienkowski DATE 6/14/88
APPROVED: D.K. Bienkowski DATE 6/14/88

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ±
2 PLACE DECIMALS ± N
3 PLACE DECIMALS ±
ANGLES ±

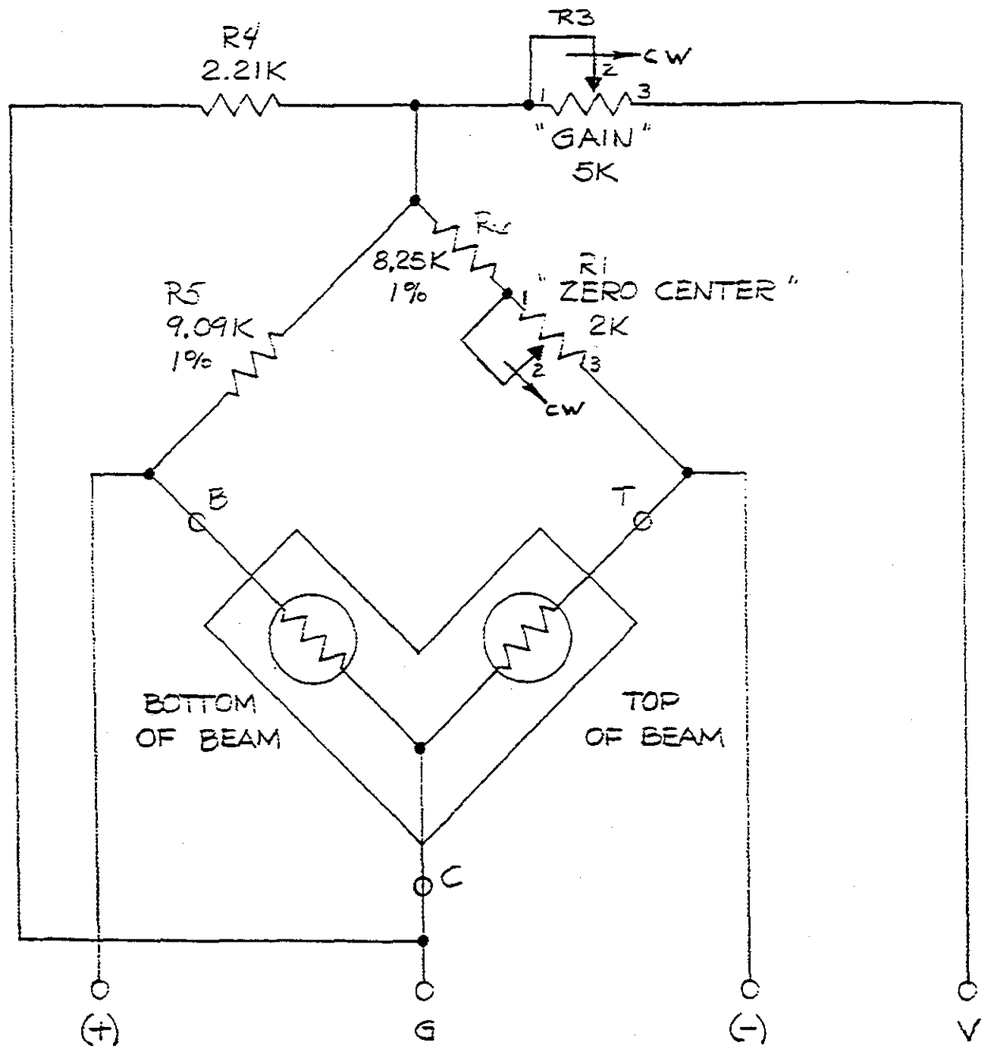
COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

TITLE: POWER SUPPLY BLOCK DIAGRAM

| SIZE | DRAWING NUMBER | REV. |
|---|---|---|
| C | 5804 BB | 00 |

SCALE: N SHEET 1 OF 1

| REVISIONS | | | |
|---|---|---|---|
| SYM | DESCRIPTION | DATE | APPROVAL |
| 00 | NEW PER ECN 115-31 V.S. HILL | 11/23/82 | |
| 01 | ECN 115-160 WGN | 9-7-83 | |
| 02 | ECN 4047 R.A.R | 12-28-83 | |
| 03 | ECN 4911 JA. | 11-14-85 | |




NOTE: (UNLESS OTHERWISE SPECIFIED)

1. ALL RESISTANCE IS IN OHMS.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| | |
|---|---|
| C5794B | 115 |
| NEXT ASSY | USED ON |

APPLICATION

MATERIAL ~

FINISH ~

DRAWN W.C. Hill DATE 11/23/82

CHECKED DATE 11-24-82

ENGINEER DATE 3/1/[illegible]

APPROVED DATE -/-/[illegible]

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS ±

2 PLACE DECIMALS ±

3 PLACE DECIMALS ±

ANGLES ±

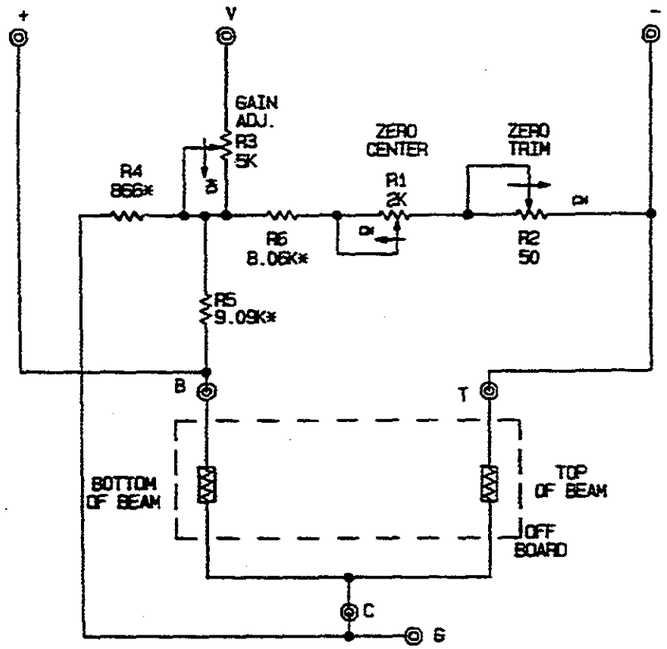
COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

TITLE: TOCO BOARD SCHEMATIC

| SIZE | DRAWING NUMBER | REV. |
|---|---|---|
| B | 5794BC | 03 |

SCALE ~ SHEET 1 OF 1

| REV | ECN | DESCRIPTION | DFT | DATE | CHKD | APPD |
|---|---|---|---|---|---|---|
| 00 | 5945 | SEE ECN | JC | 11/87 | BS | |
| 01 | 6223 | CHG DIR OF CW ARROW ON R1 & R3 | JA | 11/88 | BS | DD |




NOTES: UNLESS OTHERWISE SPECIFIED

1. * DENOTES 1/8 W, 1% RESISTOR.
2. RESISTANCE IS IN OHMS.

| HIGHEST COMP. REF. DESIG. | UNUSED |
|---|---|
| R6 | |
| | |
| | |
| | |

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DO NOT SCALE - WORK TO DIMENSIONS SHOWN
REMOVE BURRS, BREAK SHARP EDGES & CORNERS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ±
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES ±

| NEXT ASSY | USED ON |
|---|---|
| C5794C | 115 |

APPLICATION

DRAWN JOHN CUSANO DATE 11/11/87
CHECKED B. SHOTWELL DATE 11/24/87
ENGINEER DR Bunch DATE 11/24/87
APPROVED DR Bunch DATE 11/24/87

MATERIAL ~
FINISH ~

COROMETRICS® MEDICAL SYSTEMS, INC.
WALLINGFORD, CONNECTICUT

TITLE TOCO BOARD SCHEMATIC

SIZE C | DRAWING NUMBER 5794CC | REV. 01
SCALE ~ | SHEET 1 OF 1

| REVISIONS | | | | |
|---|---|---|---|---|
| ECN# | DESCRIPTION | | DATE | APPROVAL |
| 00 | NEW PER ECN4318 | WS | 5/84 | S |
| 01 | ECN 4445 | RT | 11/84 | |
| 02 | ECN 4458 | LDR | 1/18/85 | |
| 03 | ECN 4525 | JA | 7/12/85 | |
| 04 | ECN 4584 | [illegible] | 7/12/85 | |
| 05 | ECN 4725 | MA | 7/26/86 | |
| 06 | PRE ECN 5123 | MA | 7/1/86 | |
| 07 | PRE ECN 5277 | MA | 7/28/86 | |
| 08 | PRE ECN 537 | CL | 12/2/86 | |
| 09 | PRE ECN 5625 | MA | 12/8/87 | SC |
| 10 | PRE ECN 57[illegible] | MA | 2-27 | S |
| 11 | PER ECN 602 | VE | 1/87 | |

COMPONENTS WITHIN PHANTOM LINE ARE UNDER CAN.

NOTES(UNLESS OTHERWISE SPECIFIED)
1. ALL RESISTOR VALUES ARE IN OHMS.
2. ALL RESISTORS ARE 1/4W, 5%.
3. * INDICATES 1/8W, 1% RESISTORS.
4. ALL DIODES ARE IN4005.
5. ALL INDUCTANCE VALUES ARE IN MICROHENRYS (μH).
6. ALL CAPACITOR VALUES ARE IN MICROFARADS (μF).
7. * INDICATES 1% CAPACITORS.

| HIGHEST COMP. REF. DESIG. | | |
|---|---|---|
| TYPE | HIGH DESIG | UNUSED DESIG |
| RESISTORS | R122 | R119 |
| CAPACITORS | C99 | |
| IC | A12,U2 | |
| TRANSISTORS | Q10 | |
| DIODES | D11 | |
| INDUCTORS | L10 | |

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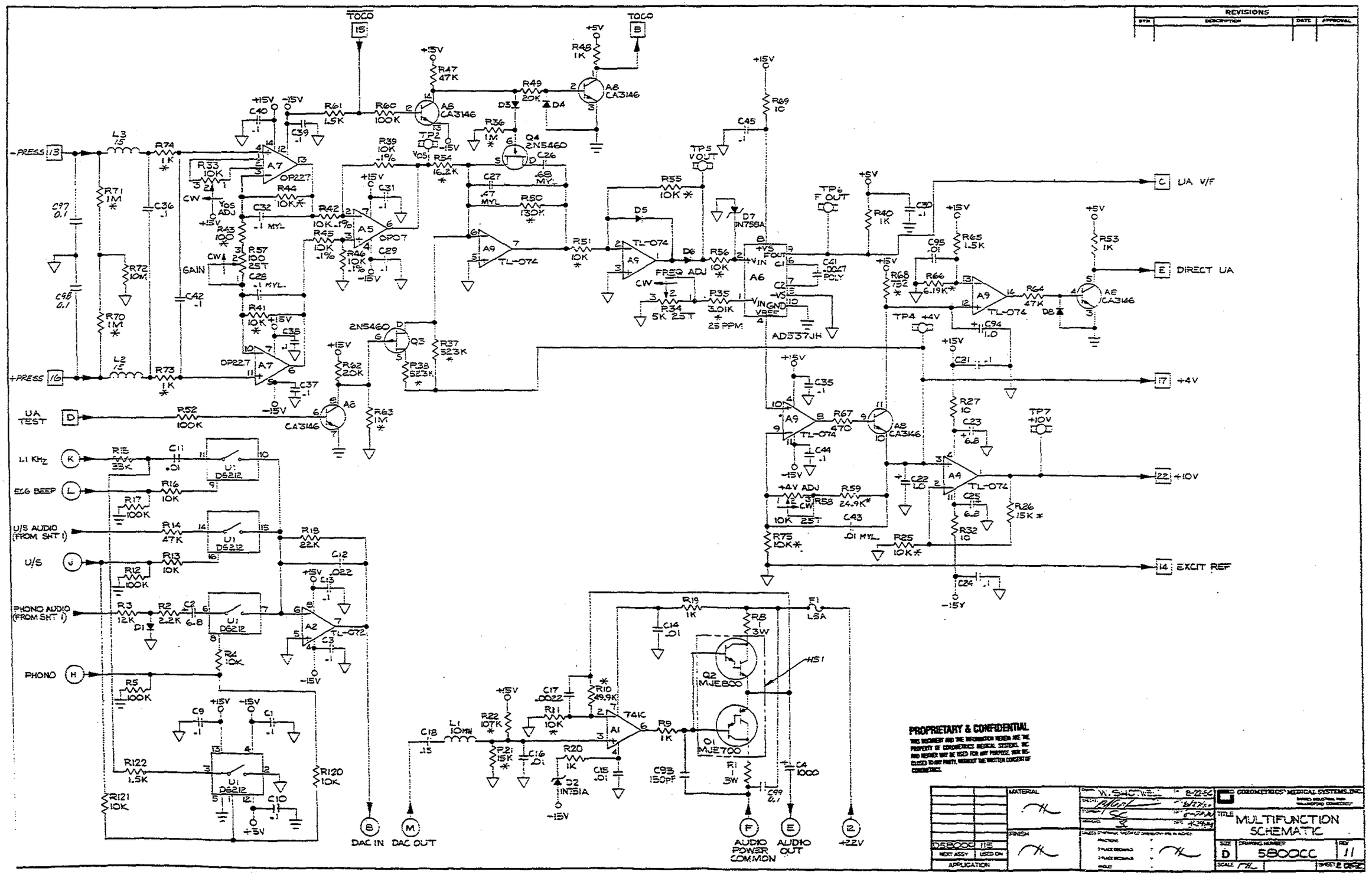
| | | | |
|---|---|---|---|
| MATERIAL | W. SHOWE | CORMETRICS MEDICAL SYSTEMS, INC. | |
| FINISH | | TITLE | MULTIFUNCTION SCHEMATIC |
| DS800C 115 NEXT ASSY / USED ON | APPLICATION | SIZE D | DRAWING NUMBER 5800CC REV. 11 |
| | | SCALE | SHEET 1 OF 2 |


REVISIONS
DESCRIPTION
DATE
APPROVAL
TOCO 15
TOCO B
-PRESS 13
+PRESS 16
UA TEST D
1.1 KHz K
ECG BEEP L
U/S AUDIO (FROM SHT 1)
U/S J
PHONO AUDIO (FROM SHT 1)
PHONO H
DAC IN B
DAC OUT M
AUDIO POWER COMMON F
AUDIO OUT E
+22V 12
UA V/F C
DIRECT UA E
+4V 17
+10V 22
EXCIT REF 14
TP2 VOS
TP5 VOUT
TP6 F OUT
TP4 +4V
TP7 +10V
OP227
TL-074
CA3146
2N5460
AD537JH
D6212
DP07
741C
MJE800
MJE700
INTSIA
IN758A
VOS ADJ
GAIN
FREQ ADJ
+4V ADJ
PROPRIETARY & CONFIDENTIAL
COROMETRICS MEDICAL SYSTEMS, INC.
MULTIFUNCTION SCHEMATIC
D58000 11E
SIZE D
DRAWING NUMBER 58000CC
REV 11
SCALE
SHEET 2 OF 2

| REVISIONS | | | |
|---|---|---|---|
| BTR | DESCRIPTION | DATE | APPROVAL |
| 00 | NEW "DC" ECN 4051 | SVD | 7/31/84 |
| 01 | ECN 4380 | R.T. | 10/18/84 |
| 02 | PER ECN 4890 | AA | 7/86 |
| 03 | PER ECN 4998 | J.A. | 1/31/86 |

SPARES

TO SHT 2 B

TO SHT 2 A

D TO SHT 2

FOR SERVICE ONLY PER ECN 5637

F EVENT OUT

B U/S PHONO ENABLE

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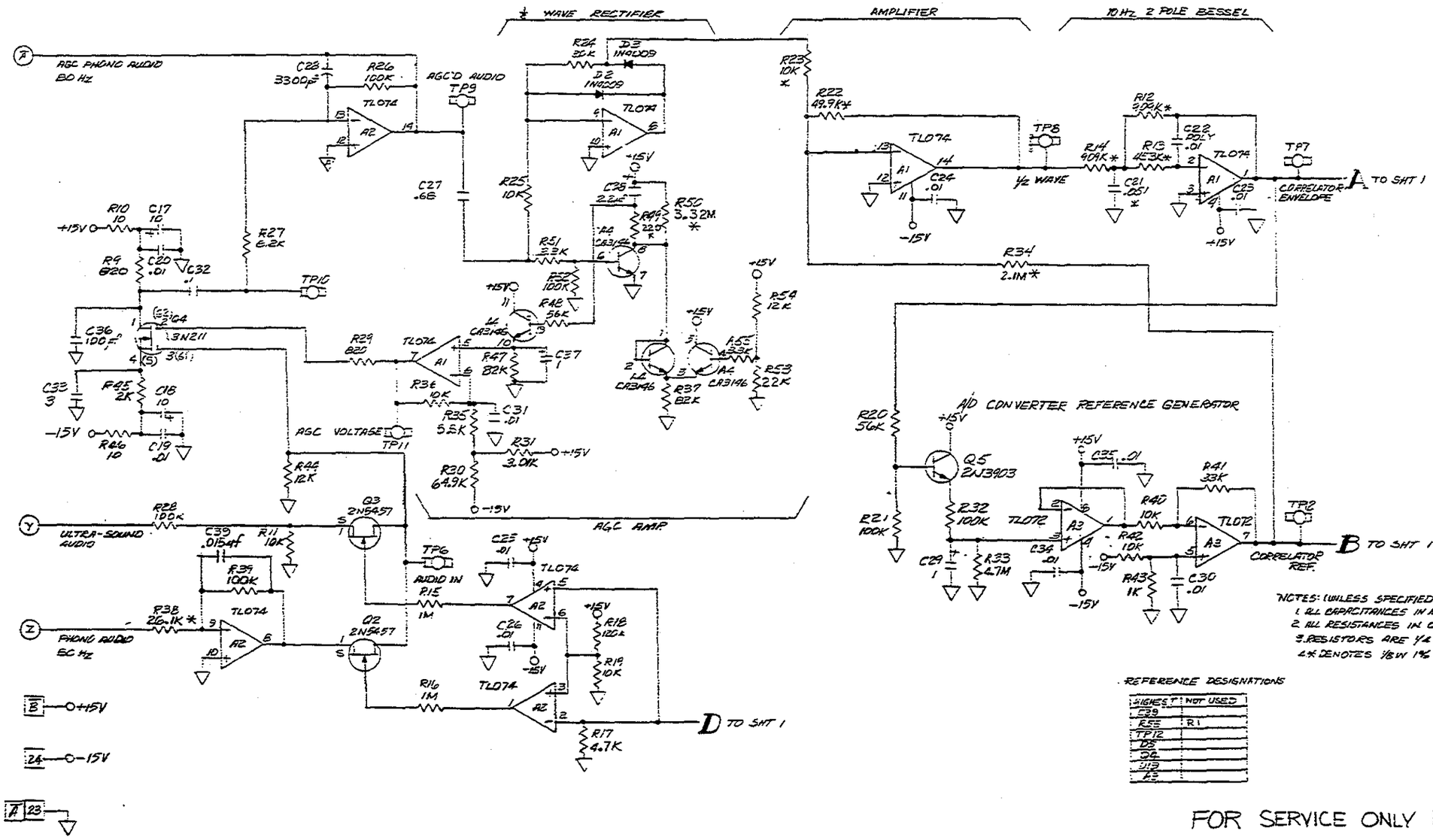
| | | | |
|---|---|---|---|
| MATERIAL | | CORMETRICS MEDICAL SYSTEMS, INC | |
| FINISH | | TITLE | CORRELATOR BRD SCHEMATIC |
| ASSY | 115 | SIZE D | DRAWING NUMBER 5801DC REV 03 |
| NEXT ASSY | USED ON | SCALE None | SHEET 1 of 2 |
| APPLICATION | | | |

| REVISIONS | | | |
|---|---|---|---|
| SYM | DESCRIPTION | DATE | APPROVAL |
| | | | |




NOTES: (UNLESS SPECIFIED OTHERWISE)
1. ALL CAPACITANCES IN MICROFARADS (uF).
2. ALL RESISTANCES IN OHMS (Ω).
3. RESISTORS ARE 1/4 W, 5%.
4. * DENOTES 1/8 W 1% RESISTORS.

REFERENCE DESIGNATIONS

| HIGHEST | NOT USED |
|---|---|
| C39 | |
| E55 | R1 |
| TP12 | |
| D5 | |
| D6 | |
| U13 | |
| A2 | |

FOR SERVICE ONLY PER ECN 5637

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| | | | |
|---|---|---|---|
| MATERIAL | DRAWN | 3/1/91 | CORMETECH MEDICAL SYSTEMS, INC. |
| FINISH | CHECKED | 3/1/91 | TITLE: CORRELATOR SCHEMATIC |
| DO NOT SCALE | NEXT ASSY | USED ON | SIZE: D |
| APPLICATION | | | DRAWING NUMBER: 5801DC |
| | | | REV: 05 |
| | | | SCALE: |
| | | | SHEET 2 OF 2 |

| REV | ECN | DESCRIPTION | BY | DATE | CHKD | APPD |
|---|---|---|---|---|---|---|
| 07 | 5825 | ADDED R102, R 03, & R104 | JC | 9/16/87 | | SC |
| 08 | 5939 | SEE ECN | JC | 9/87 | DS | SC |
| 09 | 5965 | CHG TO AGREE W/ASS'Y | JC | 9/87 | | |
| LC-001 | 5965 | SEE ECN: "LC" NEW | JC | 10/1/87 | DS | SC |
| 01 | 6047 | CHG TO AL232 W/ASS'Y | MM | 1/7/91 | | DL |

NOTES:
UNLESS OTHERWISE SPECIFIED:
1. CAPACITANCE IS IN MICROFARADS (uf).
2. RESISTANCE IS IN OHMS (Ω).
3. ALL RESISTORS ARE ¼W, 5%.
4. * DENOTES ½ W, 1% RESISTORS.

| HIGHEST COMP REF. DESIG. | UNUSED |
|---|---|
| RESISTORS | R104, R98, R99, R102, R103 |
| CAPACITORS | C60, C62, C63, C64, C65, C66, C67, C68 |
| TRANSISTORS | Q11, Q12, Q13, Q14, Q15 |
| DIODES | D6, D7, D8 |
| CRYSTALS | Y1 |
| TEST POINTS | TP9, TP10, TP11, TP12, TP13, TP14, TP15 |
| I.C.'S | U29, U30, U31, U32, U33, U34, U35 |
| RES NTWK | RN4, RN5 |

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DO NOT SCALE - WORK TO DIMENSIONS SHOWN. REMOVE BURRS, BREAK SHARP EDGES & CORNERS.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

| | | |
|---|---|---|
| FRACTIONS | ± | |
| 2 PLACE DECIMALS | ± | |
| 3 PLACE DECIMALS | ± | |
| ANGLES | ± | |

| | | | |
|---|---|---|---|
| TOLERANCE | NEXT ASSY | USED ON | APPLICATION |
| | | | |

CORPORATE OFFICE: DATAMETRICS® MEDICAL SYSTEMS, INC. WILLINGFORD, CONNECTICUT

| | | |
|---|---|---|
| DRAWN | LDK | DATE 4-10-85 |
| CHECKED | | DATE 4/17/85 |
| ENGINEER | | DATE 5-2-85 |
| APPROVED | | DATE 5-2-85 |

TITLE: 115 CPU BOARD SCHEMATIC

| MATERIAL | FINISH |
|---|---|
| AS | AS |

| SIZE | DRAWING NUMBER | REV |
|---|---|---|
| D | 5802LC | 01 |

SCALE AS | SHEET 1 of 2

| REV | ECN | DESCRIPTION | DRT | DATE | CHKD | APPD |
|---|---|---|---|---|---|---|
| * | * | SEE SHEET 1 OF 2 | | | | |

CPU/REC GND (V)

D — SEE SHEET 1

RECORDER DATA

REC b0 (H) PA0
REC b1 (J) PA1
REC b2 (K) PA2
REC b3 (L) PA3
REC b4 (M) PA4
REC b5 (N) PA5
REC b6 (P) PA6
REC b7 (R) PA7

U7 8255A-5

BCD1 (11) PB0
BCD2 (W) PB1
BCD3 (14) PB2
BCD4 (23) PB3
BLANK (22) PB4 — R102 4.7K — +5V

XFER 1 (5) (MSD) — 74LS04 U4 — PB5
XFER 2 (E) — 74LS04 U4 — PB6
XFER 3 (6) (LSD) — 74LS04 U4 — PB7

SUP PAPER LOW (17) PC0
TELEMETRY (7) PC1 — R5 10K
TP1 TP2
SUP READY TO REC (F) PC2
PAPER ADV (T) PC3 N/C
SUP ACK (16) PC4
REC OBF (S) PC5
PC6
PC7

RN1 4.7K (6) — +5VO

AUDIO OUT (24) — LM1458 U13
AUDIO IN (13)

U14 AD7524
RFB
O1
O2
V REF

AD0–AD7 — 8/ AD BUS
WR — C BUS
CS — CE BUS

B/ AD BUS — +5V — RN4 2.7K

RD (5) — C BUS
WR (36)
RESET (35)
A0 (9) AB — A BUS
A1 (8) A9
CS (6) Y1F — CE BUS

+15V (B) — C53 0.1 — C55 6.8 — 20V
ANALOG COM (23) (A)
-15V (24) — C52 0.1 — C54 6.8 — 20V
+5V (1) (2) (A) (B) — C5 0.1 — C6 22 10% 10V
DIG. COM (3) (4) (C) (D)

+10V (22) — R71 10K — C44 0.1
TL074 U28 — +10V (A)
TL074 U28 — +10V (B)

TO SHEET 1 42 — B — I0/M — C BUS / A BUS

U9 74F138 — A1A13
U8 74F138 — A1A14
N/C
E A
TO SHT 1 — M1 — 16 — 5/ CE BUS

+15V — C39 0.1 — C17 0.1 — U28 TL074 — U13 1458
C38 0.1 — C19 0.1
-15V

C28 0.1 — +5V — U22 P8155H

AD BUS 8/ — AD0–AD7

C BUS 5/ — RESET, IO/M, WR, RD, ALE
CE BUS — MP1 — CE

N/C — TIMER OUT
TIMER CLK

C33 0.1 — C32 .01 — -15V — +10V(A)

U25 DAC1408
PA7 MSB
PA6
PA5
PA4
PA3
PA2
PA1
PA0 LSB
V REF +
V REF –
I0
COMP

R68 4.99K * — R58 5.1K

R72 11.8K * — R73 60.4K * — R55 50K "ZERO" CW
C45 0.1 — TP9 HR
R53 200 CW — R60 1.15K * — "GAIN"
TL074 U28 — 470 R100 — V ±12V H.R

C35 0.1 — +5VO — C34 0.1 — +10V(B)

U24 DAC1408
PB7 MSB
PB6
PB5
PB4
PB3
PB2
PB1
PB0 LSB
V REF +
V REF –
I0
COMP

R67 4.99K * — R57 5.1K

R70 27.4K * — R69 162K * — R56 50K "ZERO" CW
C43 0.1 — TP8 UA
R54 500 CW — R59 2.8K * — "GAIN"
TL074 U28 — 470 R99 — W ±12 V PRESS

C31 0.1 — C30 .01 — -15V

TO SHEET 2 B — U21 7414 — U17 74LS08
PC0 — XFER 1
PC3 — HEARTBEAT LED
PC1 — DISPL STRB
PC2 — REC TRAP
PC4 — RECORD LED
PC5 — PEN LIFT 2
UA V/F

R31 4.7K — +5V
R61 4.7K — +5V
R32 4.7K — +5V
U16 4049
R42 220 — Q1 2N3903 — PENLIFT OUT
R43 220 — MOTOR COM

-15V — R92 * 150K — R91 * 100K — C TO SHEET 1
R90 * 100K — R93 * 33.2K — TL072 U29 — R104 470 — UA MODE
R89 10K
C57 0.1 — C58 0.1 — +15VO — -15V

+5VO — C25 C14 C12 C11 C23 C2 C24 C18 C21 — C4 C27 C26 — C9 C3 C22 — C50 6.8
U19 4081 — U11 74LS32 — U9 74F138 — U8 74F138 — U17 74LS08 — U2 4081 — U18 4071 — U14 7524 — U18 4049 — U4 74LS04 — U21 7404 — U20 4001

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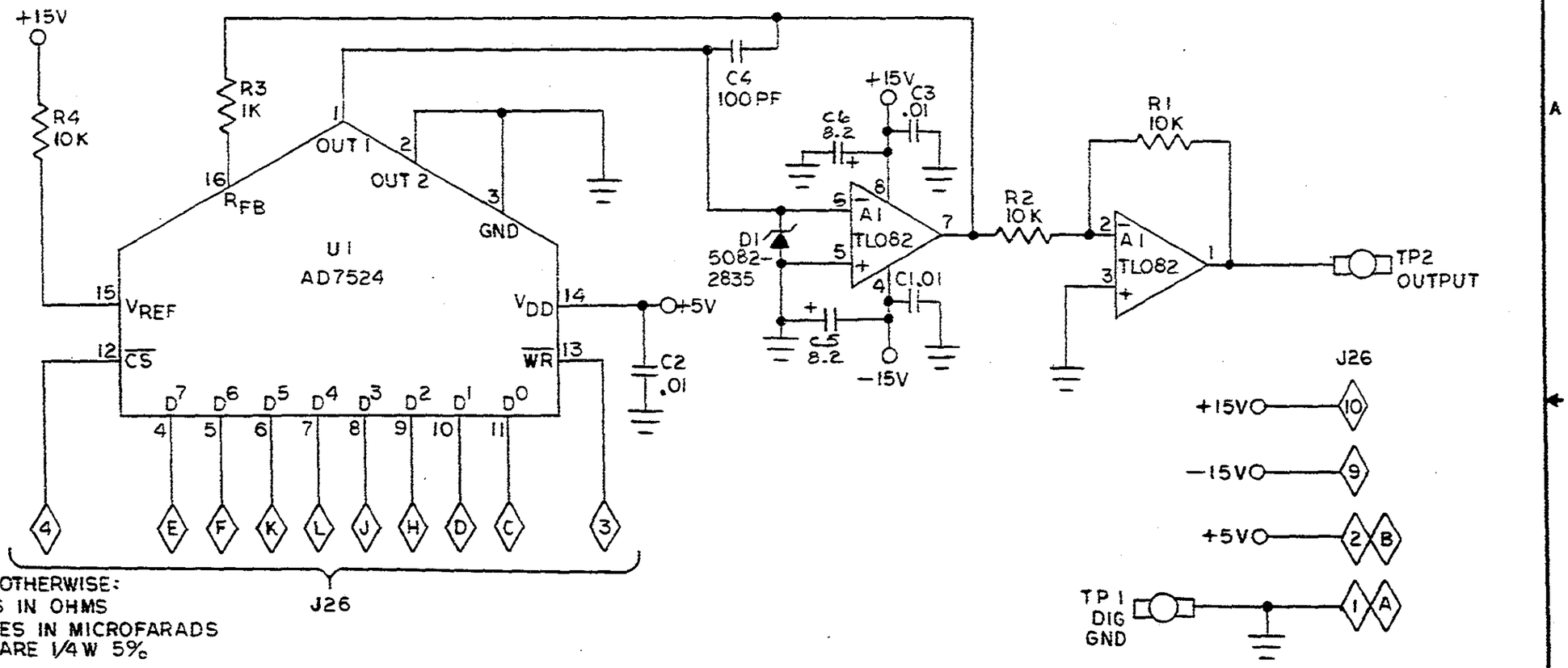
|---|---|---|---|
| DO NOT SCALE – WORK TO DIMENSIONS SHOWN REMOVE BURRS, BREAK SHARP EDGES & CORNERS | DRAWN LOK 4/9/85 | COROMETRICS® MEDICAL SYSTEMS, INC. WALLINGFORD, CONNECTICUT | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | CHECKED 11 G1 6/11/85 | | |
| FRACTIONS ± | ENGINEER 5-21-85 | TITLE 115 CPU BOARD SCHEMATIC | |
| TWO PLACE DECIMALS ± .— | APPROVED 5-21-85 | | |
| THREE DECIMALS ± .— | MATERIAL | FINISH | |
| ANGLES ± — | | SIZE D | DRAWING NUMBER 5802LC REV 01 |
| 70H-LIT 115 | | SCALE | SHEET 2 of 2 |
| NEXT ASSY USED ON | | | |
| APPLICATION | | | |

| REVISIONS | | | |
|---|---|---|---|
| SYM | DESCRIPTION | DATE | APPROVAL |
| 00 | NEW ECN 115-76 DMD | 6-2-83 | |
| 01 | ECN 115-109 DMD | 7/21/83 | |




NOTES:

1. UNLESS SPECIFIED OTHERWISE:
   - ALL RESISTANCES IN OHMS
   - ALL CAPACITANCES IN MICROFARADS
   - ALL RESISTORS ARE 1/4W 5%

| | |
|---|---|
| DIODE | D1 |
| TP | TP2 |
| IC | A1, U1 |
| CAPACITORS | C4 |
| RESISTORS | R4 |
| HIGHEST COMP REF DESIG. | |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| | |
|---|---|
| C5803A | 115 |
| NEXT ASSY | USED ON |
| APPLICATION | |

MATERIAL

FINISH

DRAWN: DMD DATE 6/2/83
CHECKED DATE 6/7/83
ENGINEER Richard Vincello DATE 6/7/83
APPROVED DR Fowler DATE 6/21/83

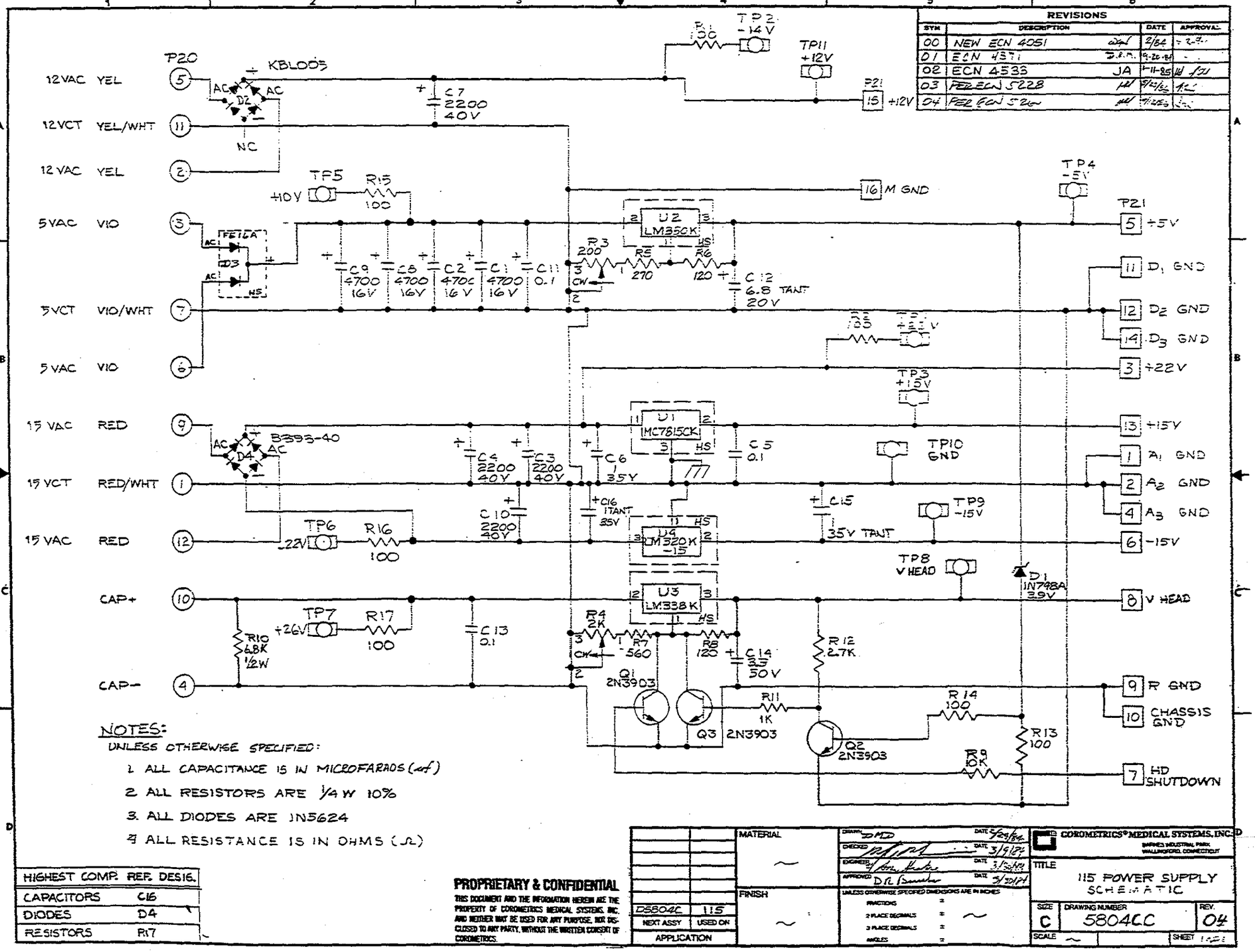
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS =
2 PLACE DECIMALS =
3 PLACE DECIMALS =
ANGLES =

COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

TITLE
CORRELATOR TEST BOARD SCHEMATIC

| SIZE | DRAWING NUMBER | REV. |
|---|---|---|
| B | 5803AC | 01 |

SCALE: SHEET 1 OF 1




NOTES:

UNLESS OTHERWISE SPECIFIED:

1. ALL CAPACITANCE IS IN MICROFARADS (mf)
2. ALL RESISTORS ARE 1/4 W 10%
3. ALL DIODES ARE 1N5624
4. ALL RESISTANCE IS IN OHMS (Ω)

| HIGHEST COMP. REF. DES16. | |
|---|---|
| CAPACITORS | C16 |
| DIODES | D4 |
| RESISTORS | R17 |

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| | |
|---|---|
| D5804C | 115 |
| NEXT ASSY | USED ON |
| APPLICATION | |

MATERIAL ~

FINISH ~

DRAWN DMD DATE 5/29/84
CHECKED DATE 3/9/84
ENGINEER DATE 3/30/84
APPROVED DATE 5/30/84

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ±
2 PLACE DECIMALS ± ~
3 PLACE DECIMALS ±
ANGLES ±

COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

TITLE
115 POWER SUPPLY SCHEMATIC

| SIZE | DRAWING NUMBER | REV. |
|---|---|---|
| C | 5804CC | 04 |

SCALE ~ SHEET 1 of 1

| | | | | | | |
|---|---|---|---|---|---|---|
| * | V45 2 | SEE ECN | MM | 7/15/87 | | |
| * | 4726 | SEE ECN | JA | 7/15/87 | | |
| * | 4980 | NEW K&L | MM | 7/15/87 | | |
| * | 5025 | SEE ECN | MM | 7/15/87 | | |
| * | 4977 | SEE ECN | MM | 7/15/87 | | |
| * | 5376 | SEE ECN | MM | 7/15/87 | | |
| * | 5443 | SEE ECN | MM | 7/15/87 | | |
| * | 5788 | SEE ECN | RB | 8/20/87 | BS | MS |
| * | 5824 | CHG TO AGREE W/ASSY | MM | 9/16/87 | SK | |
| * | 5928 | CHG TO AGREE W/ASSY | MS | 10/7/87 | BS | MS |
| * | 5964 | CHG TO AGREE W/ASSY | RB | 10/7/87 | BS | MS |

E 3804Z

SEE SHT 2

| HIGHEST COMP. REF. DESIG. | UNUSED |
|---|---|
| R158 | R109, 112 |
| C99 | R147 |
| R17 | R7, 8, 10, 11 |
| L2 | |
| A19, U2 | |
| TP14 | |
| D35 | D18, 19 |

NOTES: UNLESS OTHERWISE SPECIFIED

1. # DENOTES 1/8 W, 1% RESISTOR.
2. RESISTANCE IS IN OHMS.
3. ALL RESISTORS ARE 1/4 W, 5%.
4. ## DENOTES 1%, 50 PPM.
5. ALL DIODES ARE 1N4009.
6. CAPACITANCE IS IN MICROFARADS.
7. FOR BLOCK DIAGRAM, SEE D5806AB

F DENOTES ISOLATED GROUND

| PART NO. | REV | DESCRIPTION | R66, R67 | R65 | NEXT ASSY |
|---|---|---|---|---|---|
| D5806C | 07 | 60HZ | 15.9K 472910 | 8.45K 472912 | D5806K |
| D5806L | 09 | 50HZ | 20.5K 472911 | 10.2K 472913 | D5806L |

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B. LIBBY 7/9/87

COROMETRICS® MEDICAL SYSTEMS, INC.

ECG I BOARD SCHEMATIC

MATERIAL: X FINISH: X

SIZE: B DRAWING NUMBER: 5806TAB REV: *

SCALE: 5:1 SHEET 1 of 2

NEXT ASSY: 115 USED ON: APPLICATION:

| REV | NO. | DESCRIPTION | BY | CHK'D | APP'D |
|---|---|---|---|---|---|
| K | 5787 | ADD 20K RES AT A15 PIN 6 | M | 4/97 | BS |

ECG +80dB

ECG +80dB NOTCHED

ECG X 1000

FETAL IN-ASSIST

FETAL CAP RESET

NEOS

DIGITAL GND

ECG GND

POLARITY CONTROL

+1.4V TO COMPARATORS

FETAL CAP

B5

B6

B7

B8

B9

B10

B11

B12

B13

B14

B15

B16

B17

B18

B19

B20

B21

B22

B23

B24

B25

B26

B27

B28

B29

B30

B31

B32

B33

B34

B35

B36

B37

B38

B39

B40

B41

B42

B43

B44

| REVISIONS | | | | |
|---|---|---|---|---|
| STR | DESCRIPTION | | DATE | APPROVAL |
| 00 | | D.B.W. | | |
| 01 | NEW PCB 22 U 115-47 | RL | 9-4-85 | |
| 02 | ECN 115-108 | WSH | 9/5 | |
| 03 | ECN 4245 | RS | 9/30 | |
| 04 | ECN 5964 ADDED NOTE 5 | RD | 9/30 | |

PEAK DETECTOR RESET (12) (N)
PEAK DETECTOR INHIBIT (13) (P)
9KHz (J)
1.1KHz (H)
POLARITY CORRECT (15)
U4 TRIG (6)
(9) FETAL INHIBIT
(11) FETAL CAP RESET
(21) (Y) EVENT PULSE
+15V (10) (L)
-15V (9) (K)
+10V (6) (F)
(11) +15V DC/DC CONV
ANALOG GND (7) (H) (8) (J)
(24) (E) NEW PEAK
(K) 36 KHz
(M) ECG TEST (+)
(14) (R) POLARITY CONTROL
(L) ECG TEST COM
(10) U4 CAP
(1) (2) (A) (B) +5V
(3) (4) (C) (D) DIGITAL GND
DIGITAL GND
ANALOG GND

NOTES: (UNLESS OTHERWISE SPECIFIED)
1—ALL RESISTORS ARE 1/4W 5%.
2—RESISTANCE IS IN OHMS (Ω).
3—*DENOTES 1/8W 1% RESISTORS.
4—CAPACITANCE IS IN MICROFARADS (μF).
5—FOR BLOCK DIAGRAM SEE DWG. D5806AB

| HIGHEST COMP REF DES IN | |
|---|---|
| RESISTORS | R20 |
| CAPACITORS | C20 |
| I.C.'S | U10 |

SPARES
U9 4071 (5, 6, 4)
U9 4071 (8, 9, 10)
U9 4071 (12, 13, 11)

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| | | | |
|---|---|---|---|
| D5807B | 115 | MATERIAL | |
| NEXT ASSY | USED ON | FINISH | |
| APPLICATION | | | |

D.B.W. 5-6-85 — CORDOMETRICS MEDICAL SYSTEMS, INC. — WALLINGFORD, CONNECTICUT

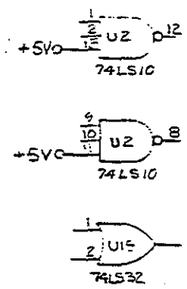
TITLE: ECG 2 SCHEMATIC

| SIZE | DRAWING NUMBER | REV |
|---|---|---|
| D | 5807BC | 04 |

SCALE: NONE — SHEET 1 OF 1

| REVISIONS | | | |
|---|---|---|---|
| SYM | DESCRIPTION | DATE | APPROVAL |
| 00 | NEW PER ECN 4319 | 9/7/84 | |
| * | ECN 4620 "XC" & "YC" | 10/20 | |
| * | PER ECN 4627 | 11/84 | |

SPARES




NOTES: (UNLESS OTHERWISE SPECIFIED)

1. ALL RESISTANCE IS IN OHMS (Ω).
2. ALL CAPACITANCE IS IN MICROFARADS (μF).
3. ALL RESISTORS ARE 1/4W, 5%.
4. * DENOTES 1/8W, 1% RESISTORS.

□ DENOTES PCT SQUARE SIDE.

○ DENOTES PCT CIRCLE SIDE.

| DWG NO | REV | USED ON ASSEMBLY | ASSY REV | DESCRIPTION |
|---|---|---|---|---|
| D5808XC | 02 | D5808X | 02 | DOMESTIC |
| D5808YC | 02 | D5808Y | 02 | EUROPEAN |
| D5808VC | 01 | D5808V | 01 | JAPANESE |
| D5808TC | 01 | D5808T | 01 | FRENCH |
| D5808UC | 01 | D5808U | 01 | GERMAN |

| | |
|---|---|
| NOT USED | |
| RES. NETWORK | RN8 RN6 |
| TEST POINTS | TP15 |
| | U13' U15-18, 23-25 |
| CAPACITORS | C50 C26-23,29 C27,33,34 |
| RESISTORS | R35 R5, R6 |

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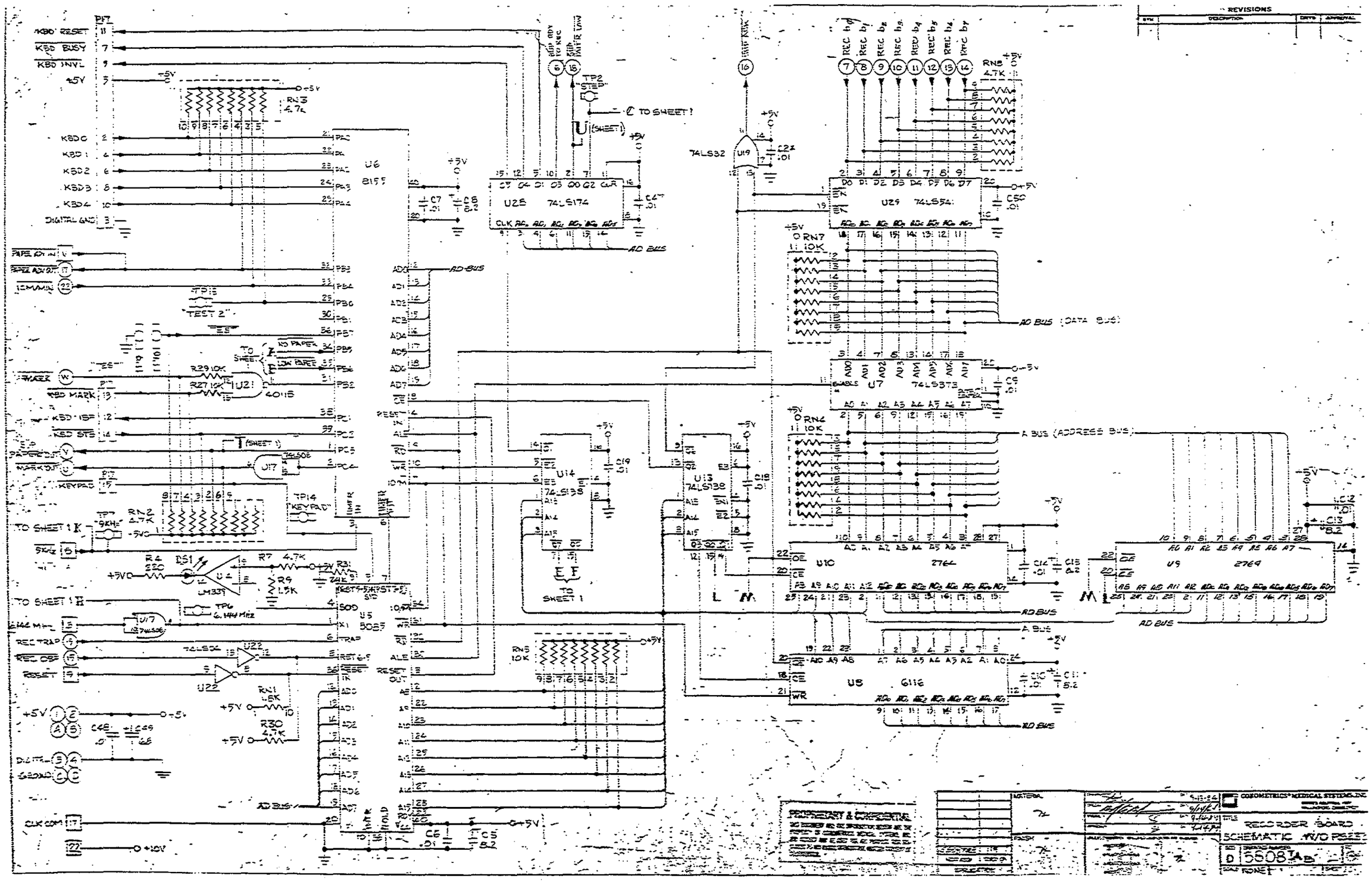
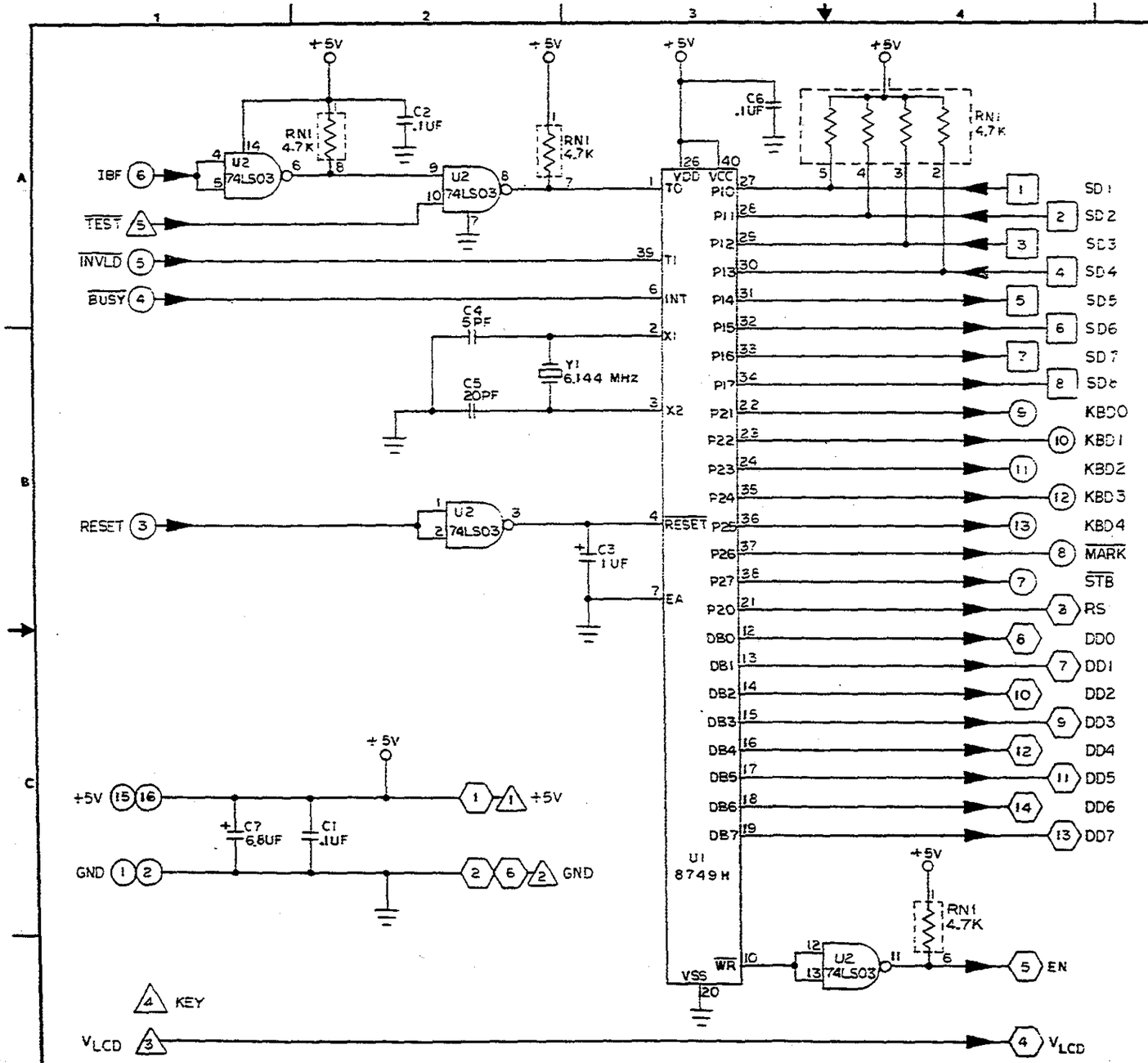
COROMETRICS MEDICAL SYSTEMS, INC.

TITLE: RECORDER BOARD SCHEMATIC W/O RS232

SIZE D | DRAWING NUMBER 5808 TAB

SCALE NONE


REVISIONS
SYM
DESCRIPTION
DATE
APPROVAL
P17
KBD RESET
KBD BUSY
KBD INVL
+5V
KBD0
KBD1
KBD2
KBD3
KBD4
DIGITAL GND
RN3 4.7K
U6 8155
U25 74LS174
C7 .01
C8 .02
C4 .01
TO SHEET 1
(SHEET 1)
74LS32 U19
C22 .01
RN8 4.7K
REC b0
REC b1
REC b2
REC b3
REC b4
REC b5
REC b6
REC b7
U29 74LS54
C50 .01
RN7 10K
AD BUS (DATA BUS)
PAPER ADV IN
PAPER ADV OUT
COMMON
"TEST 2"
"E5"
TO SHEET 1
10 PAPER
100 PAPER
PAPER OUT
R29 10K
R27 10K
U21 4011B
MARK
RED MARK
KBD ISP
KBD STB
PAPER OUT
MARK OUT
KEYPAD
(SHEET 1)
U17 74LS08
TP14 "KEYPAD"
RN2 4.7K
TP7 9KHz
TO SHEET 1 K
9KHz
R4 220
D51
U4 LM339
R7 4.7K
R31
R9 1.5K
TO SHEET 1 H
TP6 6.144 MHz
144 MHz
REC TRAP
REC DSR
RESET
74LS04
U22
RN1 1.5K
R30 4.7K
DIGITAL GROUND
CLK COM
+10V
AD BUS
U5 8085
RESET IN
RESET OUT
RD
WR
ALE
IO/M
HOLD
HLDA
SID
SOD
TRAP
X1
X2
U14 74LS138
U13 74LS138
E F
TO SHEET 1
RN4 10K
A BUS (ADDRESS BUS)
U7 74LS373
U10 2764
U9 2764
U8 6116
C14 .01
C15 .02
C12 .01
C13 8.2
C10 .01
C11 5.2
RD BUS
WR BUS
L
M
PROPRIETARY & CONFIDENTIAL
COSMETICS MEDICAL SYSTEMS, INC.
RECORDER BOARD
SCHEMATIC W/O PSEC
D 5608 A




| REVISIONS | | | | |
|---|---|---|---|---|
| SYM | DESCRIPTION | | DATE | APPROVAL |
| 00 | NEW | D.M.D. | 4-6-83 | |
| 01 | ECN 115-105 | VSH | 7/23 | MK |
| 02 | ECN 115-166 | VSH | 9/62 | MK |
| 03 | "EC" NEW | [illegible] | 2/3[illegible] | |
| 03 | "AC" ECN 4077 | WS | 2[illegible] | [illegible] |
| 00 | "CC DC NEW | DBW | [illegible] | [illegible] |
| * | "EC" NEW | [illegible] | [illegible] | [illegible] |
| * | ECN 115-[illegible] | [illegible] | [illegible] | [illegible] |

NOTES:

1. UNLESS SPECIFIED OTHERWISE:
   ALL RESISTANCES IN OHMS
   ALL CAPACITANCES IN MICROFARADS
2. CONNECTOR DENOTED AS:
   - ○ — IS P1
   - □ — IS P2
   - ⬡ — IS P3
   - △ — IS P4

| | | | |
|---|---|---|---|
| C5809EC | 00 | C5809E | SPANISH |
| C5809DC | 00 | C5809D | GERMAN |
| C5809CC | 01 | C5809C | FRENCH |
| C5809BC | 01 | C5809B | JAPANESE |
| C5809AC | 03 | C5809A | DOMESTIC |
| PART NO. | REV | NEXT ASSY | DESCRIPTION |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| | |
|---|---|
| SEE TABLE 2115 | |
| NEXT ASSY | USED ON |
| APPLICATION | |

MATERIAL

FINISH

DRAWN D.M.D. DATE 4/6/83
CHECKED DATE
ENGINEER DATE
APPROVED DATE

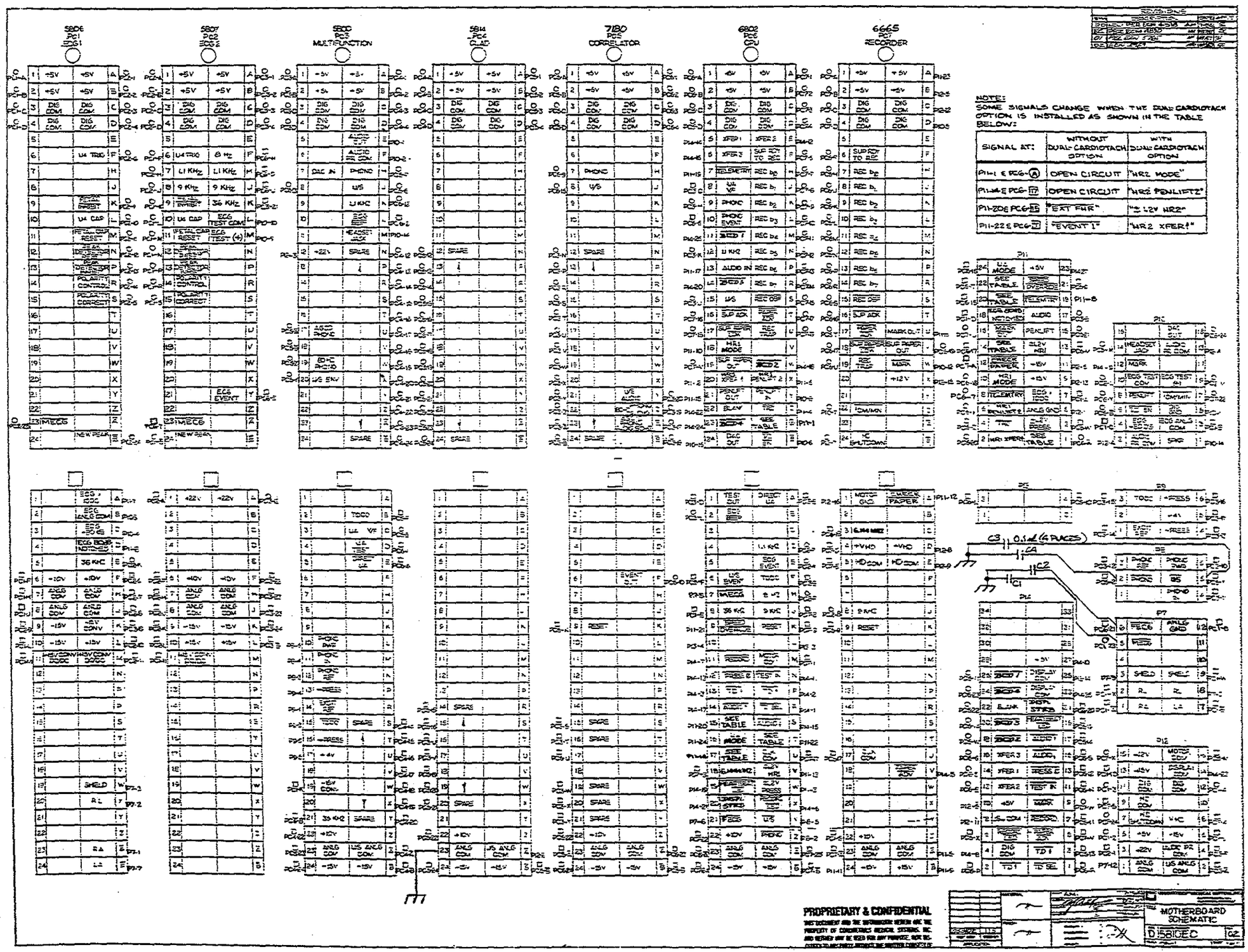
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ±
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES ±

COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

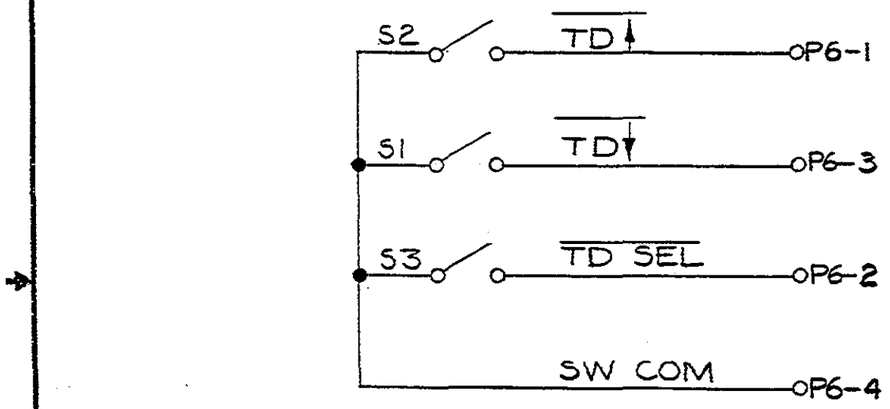
TITLE: KEYPAD PROCESSOR SCHEMATIC

| SIZE | DRAWING NUMBER | REV. |
|---|---|---|
| C | 5809TAB | * |

SCALE ~ SHEET 1 OF 1


5806 P21 ECG1
5807 P22 ECG2
5808 P23 MULTIFUNCTION
5814 P24 QUAD
7180 P25 CORRELATOR
6802 P26 CPU
6665 P27 RECORDER
NOTE:
SOME SIGNALS CHANGE WHEN THE DUAL CARDIOTACH OPTION IS INSTALLED AS SHOWN IN THE TABLE BELOW:
SIGNAL AT: | WITHOUT DUAL CARDIOTACH OPTION | WITH DUAL CARDIOTACH OPTION
P11-1 E PC6-A | OPEN CIRCUIT | "HR2 MODE"
P11-14 E PC6-W | OPEN CIRCUIT | "HR2 PENLIFT2"
P11-20 E PC6-15 | "EXT FWR" | "+12V HR2"
P11-22 E PC6-21 | "EVENT 1" | "HR2 XFER1"
PROPRIETARY & CONFIDENTIAL
MOTHERBOARD SCHEMATIC
D1581GEC 02

| REVISIONS | | | | |
|---|---|---|---|---|
| SYM | DESCRIPTION | | DATE | APPROVAL |
| 00 | NEW | D.BW. | 1-24-83 | |
| 01 | ECN 115-37 | VSH. | 5/83 | |

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| | |
|---|---|
| C5811A | 115 |
| NEXT ASSY | USED ON |
| APPLICATION | |

MATERIAL: N/A

FINISH: N/A

DRAWN D.BW. DATE 1/24/83
CHECKED [signature] DATE 4/15/83
ENGINEER [signature] DATE 4-28-83
APPROVED DR Bowder DATE 4-28-83

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ±
2 PLACE DECIMALS ±
3 PLACE DECIMALS ±
ANGLES ±
N/A

COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

TITLE: TIME/DATE SWITCH SCHEMATIC

| SIZE | DRAWING NUMBER | REV. |
|---|---|---|
| A | 5811AC | 01 |

SCALE NONE SHEET 1 OF 1

| REVISIONS | | | |
|---|---|---|---|
| STR | DESCRIPTION | DATE | APPROVAL |
| CC | ECN 4421 E.A.R. | 4/30/84 | |

P4

XFER 3 (12) XFER 3 — U5 7406 — RN5 150 — Q2 MPS4355 — RN4 1K

XFER 2 (8) XFER 2 — U5 7406 — RN5 150 — Q3 MPS4355 — RN4 1K

XFER 1 (10) XFER 1 — U5 7406 — RN5 150 — Q4 MPS4355 — RN4 1K

+5V STRBS (23) — W1 — +5V FILTERED

C9 0.1 — C8 6S 15V

DISPL COM (19)

DISPL COM (21)

C6 0.1 — C7 6.8

+5V (6) — +5V

BCD 1 (22) — U4 LS04

BCD 2 (14) — U4 LS04

BCD 3 (16) — U4 LS04

BCD 4 (20) — U4 LS04

BLANK (18) — U4 LS04

C4 0.1 — U4 LS04

DISPL STRB (17) DISPL STRB

HEART RATE DISPLAY (YELLOW)

UTERINE ACTIVITY DISPLAY (GREEN)

DS3 (UNITS)

DS7 (UNITS) HDSP-4600

DS2 (TENS)

DS6 (TENS) HDSP-4600

DS1 (HUNDREDS)

DS5 (MSD+ SIGN) HDSP-4606

U1 7447A — C1 0.1 — RN1 680

U2 7447A — RN3 680

U3 MM 74LS175 — C3 0.1 — C2 0.1 — +5V

P5

+5V (5)

(3)

KEY (1)

(2) N.C.

P4

(2) RECORD LED

(4) SW COM

S1 (13) AUDIO 4

S3 (11) AUDIO 4

S5 (9) PRESS ZERO

S7 (7) TEST

S2 (5) MARK

S4 (3) RECORD

S6 (1) PAPER ADV

+5V FILTERED — RN2 150

HEART BEAT DISPLAY (YELLOW) — DS4 — RN4 1K — Q1 2N2222A — C5 0.1 — U5 7406 — HEART BEAT (15)

NOTES: (UNLESS OTHERWISE SPECIFIED)
1. ALL RESISTANCE IS IN OHMS (Ω)
2. ALL CAPACITANCE IS IN MICROFARADS (μF)
3. ○ DENOTES P4 CONNECTOR.
4. □ DENOTES P5 CONNECTOR.
5. ALL LS DEVICES ARE 74 SERIES

SPARES:

U5 7406 — U5 7406 — RN5 150 — +5V FILTERED — RN2 150 — RN4 1K

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| | | | |
|---|---|---|---|
| 5812CC | 115 | MATERIAL | DRAWN R.A.R. 11/30/84 |
| NEXT ASSY | USED ON | FINISH | CHECKED 12-7-84 |
| APPLICATION | | | ENGINEER 12-7-84 |
| | | | APPROVED 12/7/84 |

CORometrics® MEDICAL SYSTEMS, INC.
WALLINGFORD, CONNECTICUT

TITLE: 115 DISPLAY & SWITCH BOARD SCHEMATIC

SIZE D | DRAWING NUMBER 5812CC | REV 00

SCALE None | SHEET 1 OF 1

| REVISIONS | | | |
|---|---|---|---|
| SYM | DESCRIPTION | DATE | APPROVAL |
| 00 | NEW PER ECN 4425 | R.A.R. 11/30/84 | |

| HIGHEST COMP. REF. DESIG. | |
|---|---|
| RESISTORS | R21 |
| TRANSISTORS | Q5 |
| CAPACITORS | C3 |
| INDUCTORS | L1 |

NOTES: (UNLESS OTHERWISE SPECIFIED)
1—ALL RESISTOR VALUES ARE IN OHMS, 1/4 W, 10%.
2—CAPACITOR VALUES ARE IN μf.

DENOTES P4
DENOTES P5

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| | | | |
|---|---|---|---|
| D6394A | 142 | MATERIAL | |
| NEXT ASSY | USED ON | FINISH | |
| APPLICATION | | | |

R.A.R. 11-30-84
E.S. 6-7-85
L.P.C. 11-7-85
D.P. 12/7/89

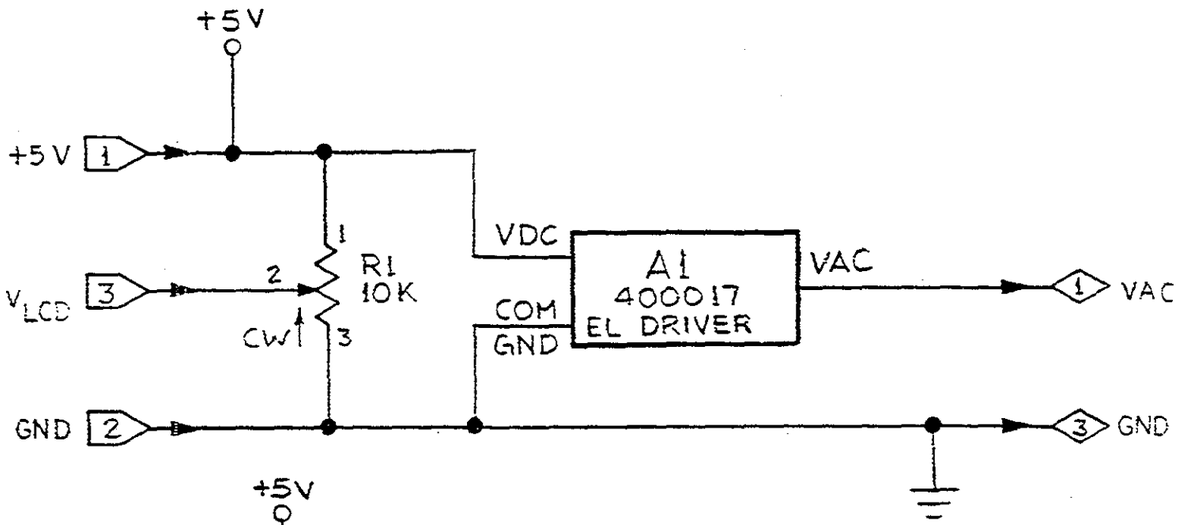
COROMETRICS MEDICAL SYSTEMS, INC.

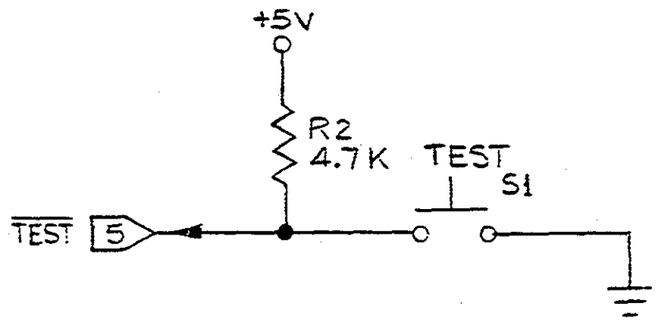
TITLE: DISPLAY/SWITCH. SCHEMATIC

SIZE D | DRAWING NUMBER 5812DC | REV 00

SCALE | SHEET 1 OF 1

| REVISIONS | | | | |
|---|---|---|---|---|
| SYM | DESCRIPTION | | DATE | APPROVAL |
| 00 | NEW | [illegible] | 3-18-83 | |
| 01 | ECN 115-183 | D.B.W. | 10-3-83 | MK |




4 KEY

NOTES:
UNLESS OTHERWISE SPECIFIED:

1. RESISTOR VALUES ARE IN OHMS.
2. RESISTORS ARE 1/4 W 5%.

PINS ON P6

PINS ON P9

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| | |
|---|---|
| C5813A | 115 |
| NEXT ASSY | USED ON |
| APPLICATION | |

MATERIAL —

FINISH —

| | |
|---|---|
| DRAWN [illegible] | DATE 3-18-83 |
| CHECKED [illegible] | DATE 4/14/83 |
| ENGINEER [illegible] | DATE 4/15/83 |
| APPROVED [illegible] | DATE 4/15/83 |

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

| | |
|---|---|
| FRACTIONS | = — |
| 2 PLACE DECIMALS | = — |
| 3 PLACE DECIMALS | = — |
| ANGLES | = — |

COROMETRICS® MEDICAL SYSTEMS, INC.
BARNES INDUSTRIAL PARK
WALLINGFORD, CONNECTICUT

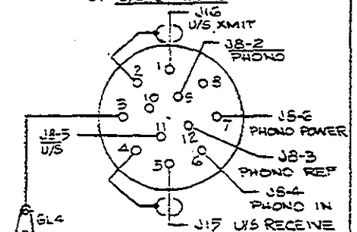
TITLE
KEYPAD AUXILIARY BD
SCHEMATIC

| SIZE | DRAWING NUMBER | REV. |
|---|---|---|
| B | 5813AC | 01 |

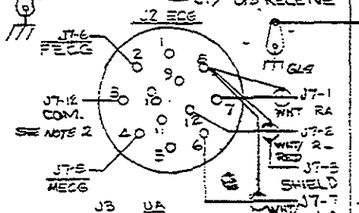
SCALE NONE | SHEET 1 OF 1

## FRONT BEZEL

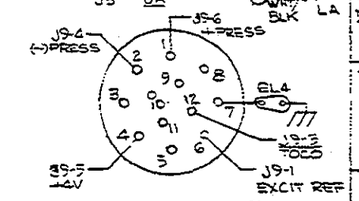
J1 U/S & PHONO

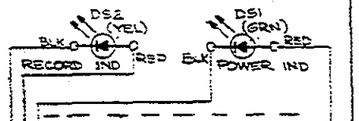



J2 ECG




J3 U/A




| J5 | P5 | | | P5 | J5 |
|---|---|---|---|---|---|
| | 4 | 4 | SW COM | KEY | | 1 |
| | 5 | 5 | +5V | SPARE | 2 | 2 |
| | 6 | 6 | RECORD LED | +5V | 3 | 3 |

| J4 | P4 | | | P4 | J4 | |
|---|---|---|---|---|---|---|
| | 26 | 26 | —— | —— | 25 | 25 | |
| J14-28 | 24 | 24 | SPARE | +5V | 23 | 23 | J14-27 |
| J14-26 | 22 | 22 | BCD 1 | DISPLAY COM | 21 | 21 | J14-25 |
| J14-24 | 20 | 20 | BCD 4 | DISPLAY COM | 19 | 19 | J14-23 |
| J14-22 | 18 | 18 | BLANK | DISPL STRB | 17 | 17 | J14-21 |
| J14-20 | 16 | 16 | BCD 3 | HEART BEAT LED | 15 | 15 | J14-19 |
| J14-18 | 14 | 14 | BCD 2 | AUDIO 1 | 13 | 13 | J14-17 |
| J14-16 | 12 | 12 | XFER 3 | AUDIO 2 | 11 | 11 | J14-15 |
| J14-14 | 10 | 10 | XFER 1 | PRESS Ø | 9 | 9 | J14-13 |
| J14-12 | 8 | 8 | XFER 2 | TEST IN | 7 | 7 | J14-11 |
| J14-10 | 6 | 6 | +5V | MARK | 5 | 5 | J14-9 |
| J14-8 | 4 | 4 | SW COM | RECORD | 3 | 3 | J14-7 |
| J14-6 | 2 | 2 | RECORD LED | PAPER ADV | 1 | 1 | J14-5 |

DISPLAY & SWITCH BRD

| J7 | P7 | | | P7 | J7 | |
|---|---|---|---|---|---|---|
| J2-2 | 6 | 6 | FECG | COM | 12 | 12 | J2-3 |
| J2-4 | 5 | 5 | MECG | KEY | 11 | 11 | |
| | 4 | 4 | | | 10 | 10 | |
| J2-8 | 3 | 3 | SHIELD | SHIELD | 9 | 9 | |
| J2-12 | 2 | 2 | RL | RL | 8 | 8 | |
| J2-7 | 1 | 1 | RA | LA | 7 | 7 | J2-6 |

| J8 | P8 | | | P8 | J8 | |
|---|---|---|---|---|---|---|
| J1-12 | 3 | 3 | PHONO REF | PHONO PWR | 6 | 6 | J1-7 |
| J1-5 | 2 | 2 | PHONO | U/S | 5 | 5 | J1-11 |
| | 1 | | KEY | PHONO IN | 4 | 4 | J1-6 |

| J9 | P9 | | | P9 | J9 | |
|---|---|---|---|---|---|---|
| J3-12 | 5 | 5 | TOCO | →PRESS | 6 | 6 | J3-1 |
| | 2 | | KEY | →4V | 5 | 5 | J3-4 |
| J3-6 | 1 | 1 | EXCITE REF | →PRESS | 4 | 4 | J3-2 |

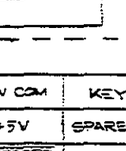
MULTIFUNCTION BRD

J1F U/S RECEIVE J1-5 · J1G U/S XMIT J1-1

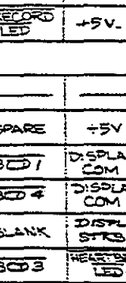
TIME/DATE SWITCH BRD

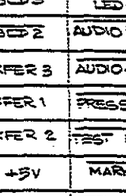
| J6 | P6 | | | P6 | J6 | |
|---|---|---|---|---|---|---|
| J14-4 | 4 | 4 | SW COM | TD 4 | 3 | 3 | J14-3 |
| J14-1 | 2 | 2 | TDSEL | TD 1 | 1 | 1 | J14-2 |

| J25 | | | | J25 | |
|---|---|---|---|---|---|
| J19-21 | 4 | PAPER LOW | DIG COM | 3 | J15-20 |
| J15-19 | 2 | DIG COM | OPTO DRIVE A | 1 | J15-22 |




STEPPER MOTOR




| SW20 | J24 | | | | J24 | |
|---|---|---|---|---|---|---|
| J19-17 | 4 | PAPER OUT | DIG COM | 5 | J19-16 |
| J19-15 | 2 | DIG COM | OPTO DRIVE B | 1 | J19-18 |

CHART RECORDER ASSY.

| P22 | J22 | | | | P22 | J22 | |
|---|---|---|---|---|---|---|---|
| VHD | 7 | 7 | J19-1 | | SBS | 7 | 7 | J19-8 |
| VHD | 6 | 6 | J19-2 | | SBA | 6 | 6 | J19-9 |
| HD COM | 5 | 5 | J19-3 | | CR | 5 | 5 | J19-10 |
| HD COM | 4 | 4 | J19-4 | | CK | 4 | 4 | J19-11 |
| SBS | 3 | 3 | J19-5 | | LD | 3 | 5 | J19-12 |
| SBA | 2 | 2 | J19-6 | | VDD | 2 | 2 | J19-13 |
| DI | 1 | 1 | J19-7 | | VSS | 1 | | J19-14 |

| J14 | P14 | | | P14 | J14 | |
|---|---|---|---|---|---|---|
| | 34 | 34 | —— | —— | 33 | 33 | |
| | 32 | 32 | —— | —— | 31 | 31 | |
| | 30 | 30 | —— | —— | 29 | 29 | |
| J4-24 | 28 | 28 | SPARE | +5V | 27 | 27 | J4-23 |
| J4-22 | 26 | 26 | BCD 1 | DISPLAY COM | 25 | 25 | J4-21 |
| J4-20 | 24 | 24 | BCD 4 | DISPLAY COM | 23 | 23 | J4-19 |
| J4-18 | 22 | 22 | BLANK | DISPL STRB | 21 | 21 | J4-17 |
| J4-16 | 20 | 20 | BCD 3 | HEART BEAT LED | 19 | 19 | J4-15 |
| J4-14 | 18 | 18 | BCD 2 | AUDIO 1 | 17 | 17 | J4-13 |
| J4-12 | 16 | 16 | XFER 3 | AUDIO 2 | 15 | 15 | J4-11 |
| J4-10 | 14 | 14 | XFER 1 | PRESS Ø | 13 | 13 | J4-9 |
| J4-8 | 12 | 12 | XFER 2 | TEST IN | 11 | 11 | J4-7 |
| J4-6 | 10 | 10 | +5V | MARK | 9 | 9 | J4-5 |
| J4-4 | 8 | 8 | SW COM | RECORD | 7 | 7 | J4-3 |
| J4-2 | 6 | 6 | RECORD LED | PAPER ADV | 5 | 5 | J4-1 |
| J6-4 | 4 | 4 | DIG COM | TD 4 | 3 | 3 | J6-3 |
| J6-1 | 2 | 2 | TD 4 | TD SEL | 1 | 1 | J6-2 |

| J12 | P12 | | | P12 | J12 | |
|---|---|---|---|---|---|---|
| J21-15 | 15 | 15 | +12V | MOTOR COM | 16 | 16 | J21-16 |
| J21-13 | 13 | 13 | +15V | DISPLAY COM | 14 | 14 | J21-14 |
| J21-11 | 11 | 11 | DIG COM | DIG COM | 12 | 12 | J21-12 |
| J21-9 | 9 | 9 | HD COM | —— | 10 | 10 | J21-10 |
| J21-7 | 7 | 7 | HD SHUTDOWN | V HD | 8 | 8 | J21-8 |
| J21-5 | 5 | 5 | +5V | −15V | 6 | 6 | J21-6 |
| J21-3 | 3 | 3 | +22V | AUDIO PR COM | 4 | 4 | J21-4 |
| J21-1 | 1 | 1 | ANLG COM | US ANLG COM | 2 | 2 | J21-2 |

MOTHER BOARD

| J19 | P19 | | | P19 | J19 | |
|---|---|---|---|---|---|---|
| | 26 | 26 | | | 25 | 25 | |
| | 24 | 24 | | | 23 | 23 | |
| J25-1 | 22 | 22 | OPTO DRIVE A | PAPER LOW | 21 | 21 | J25-4 |
| J25-3 | 20 | 20 | DIG COM | DIG COM | 19 | 19 | J25-2 |
| J24-1 | 18 | 18 | OPTO DRIVE B | PAPER OUT | 17 | 17 | SW20-1 |
| J24-3 | 16 | 16 | DIG COM | DIG COM | 15 | 15 | J24-2 |
| J23-1 | 14 | 14 | VSS | VDD | 13 | 13 | J23-2 |
| J23-3 | 12 | 12 | LD | CK | 11 | 11 | J23-4 |
| J23-5 | 10 | 10 | CR | SBA | 9 | 9 | J23-6 |
| J23-7 | 8 | 8 | SBS | DI | 7 | 7 | J22-1 |
| J22-2 | 6 | 6 | SBA | SBS | 5 | 5 | J22-3 |
| J22-4 | 4 | 4 | HD COM | HD COM | 3 | 3 | J22-5 |
| J22-6 | 2 | 2 | VHD | VHD | 1 | 1 | J22-7 |

RECORDER BRD.

| P18 | | | | P18 | |
|---|---|---|---|---|---|
| M1-R5 | 6 | 6 | Q1 | KEY | | 1 | |
| M1-F6 | 7 | 7 | Q3 | Q2 | 2 | 2 | M1-RY |
| M1-R2 | 8 | 8 | +12V | Q4 | 3 | 3 | M1-FY |
| M1-F8 | 9 | 9 | +12V | +12V | 4 | 4 | M1-RR |
| | 10 | 10 | —— | +12V | 5 | 5 | M1-FR |

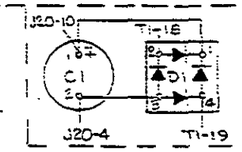
| J17 | P17 | | | P17 | J17 | |
|---|---|---|---|---|---|---|
| | 16 | | | KEYPAD | 15 | 15 | J103-8 |
| J103-15 | 14 | 14 | KBD STB | KBD MARK | 13 | 13 | J103-7 |
| J103-14 | 12 | 12 | KBD ISF | KBD RESET | 11 | 11 | J103-6 |
| J103-13 | 10 | 10 | KBD4 | KBD INVL | 9 | 9 | J103-5 |
| J103-12 | 8 | 8 | KBD3 | KBD BUSY | 7 | 7 | J103-4 |
| J103-11 | 6 | 6 | KBD 2 | +5V | 5 | 5 | J103-3 |
| J103-10 | 4 | 4 | KBD1 | COM | 3 | 3 | J103-2 |
| J103-9 | 2 | 2 | KBDØ | —— | 1 | 1 | |

| J10 | P10 | | | P10 | J10 | |
|---|---|---|---|---|---|---|
| | 16 | 16 | | AUDIO OUT | 15 | 15 | J104-2 |
| J104-3 | 14 | 14 | HEADSET JACK | AUDIO PR COM | 13 | 13 | J104-1 |
| J103-2 | 12 | 12 | MARK | | 11 | 11 | |
| J107-R | 10 | 10 | ECG TEST COM | ECG TEST (+) | 9 | 9 | J107-L |
| S105-1 | 8 | 8 | PEN LIFT | COM/MIN | 7 | 7 | S105-3 |
| S101-1 | 6 | 6 | T/D EN | DIG END | 5 | 5 | S105-2 |
| J106-1 | 4 | 4 | ECG +80dB | ECG ANLG COM | 3 | 3 | J106-2 |
| SPKR- | 2 | 2 | AUDIO PR COM | SPKR | 1 | 1 | SPKR+ |

| P13 | | | P13 |
|---|---|---|---|
| 3 | | | 4 |
| | KEY | | 2 |

| J11 | P11 | | | P11 | J11 | |
|---|---|---|---|---|---|---|
| J102-24 | 24 | 24 | US MODE | +5V | 25 | 25 | J102-12 |
| J102-23 | 22 | 22 | SEE TABLE | SPEED OVERRIDE | 21 | 21 | J102-11 |
| J102-22 | 20 | 20 | SEE TABLE | TELEMETRY | 19 | 19 | J102-10 |
| J102-21 | 18 | 18 | ESE 80dB NOTCHED | AUDIO | 17 | 17 | J102-9 |
| J102-20 | 16 | 16 | MARK OUT | PENLIFT | 15 | 15 | J102-8 |
| J102-19 | 14 | 14 | SEE TABLE | = 1.2V HR1 | 13 | 13 | J102-7 |
| J102-18 | 12 | 12 | CHECK PAPER | −15V | 11 | 11 | J102-6 |
| J102-17 | 10 | 10 | HR1 MODE | +15V | 9 | 9 | J102-5 |
| J102-16 | 5 | 8 | TELEMETRY | ECG X 1000 | 7 | 7 | J102-4 |
| J102-15 | 6 | 6 | HR1 PENLIFT 2 | ANLG GND | 5 | 5 | J102-3 |
| J102-14 | 4 | 4 | TRC | = 1.2V PRESS | 3 | 3 | J102-2 |
| J102-13 | 2 | 2 | HR1 XFER Ø | SEE TABLE | 1 | 1 | J102-1 |

| J20 | P20 | | | | P20 | J20 | |
|---|---|---|---|---|---|---|---|
| TH-6 | 1 | 1 | | 5V CT | 2 | 2 | |
| T1-9 | 2 | 2 | | 12VAC | 4 | 4 | |
| T1-14 | 3 | 3 | | 5VAC | 6 | 6 | |
| C1-2 | 4 | 4 | | CAP (-) | 8 | 8 | |
| T1-11 | 5 | 5 | | 12 VAC | 10 | 10 | |
| T1-12 | 6 | 6 | | 5 VAC | 12 | 12 | |
| T1-13 | 7 | 7 | | 5VCT | 14 | 14 | |
| | 8 | 8 | | | 16 | 16 | |
| T1-17 | 9 | 9 | | 15VAC | 18 | 18 | |
| C1-1 | 10 | 10 | | CAP + | 20 | 20 | |
| T1-10 | 11 | 11 | | 12V CT | 22 | 22 | |
| T1-15 | 12 | 12 | | 15 VAC | 24 | 24 | |



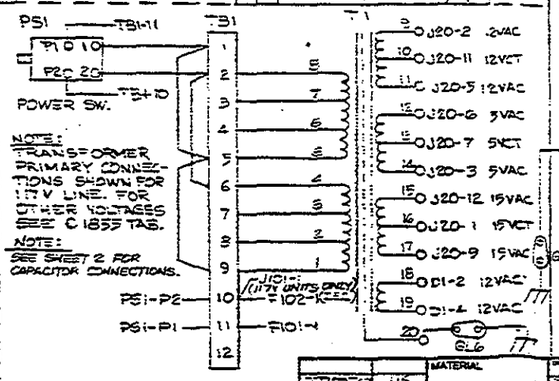

| J21 | P21 | | | P21 | J21 | |
|---|---|---|---|---|---|---|
| J12-15 | 15 | 15 | +12V | MOTOR COM | 16 | 16 | J12-16 |
| J12-13 | 13 | 13 | +15V | DISPLAY COM | 14 | 14 | J12-14 |
| J12-11 | 11 | 11 | DIG COM | DIG COM | 12 | 12 | J12-12 |
| J12-9 | 9 | 9 | HD COM | CHASSIS | 10 | 10 | J12-10 |
| J12-7 | 7 | 7 | HD SHUTDOWN | V HD | 8 | 8 | J12-8 |
| J12-5 | 5 | 5 | +5V | −15V | 6 | 6 | J12-6 |
| J12-3 | 3 | 3 | +22V | AUDIO PR COM | 4 | 4 | J12-4 |
| J12-1 | 1 | 1 | ANLG COM | US ANLG COM | 2 | 2 | J12-2 |

POWER SUPPLY BRD

PS1 —— TB1-11
P1 D1 0
P2 C 20
TB1-10
POWER SW.

NOTE: TRANSFORMER PRIMARY CONNECTIONS SHOWN FOR 117V LINE. FOR OTHER VOLTAGES SEE C 1855 TAB.

NOTE: SEE SHEET 2 FOR CAPACITOR CONNECTIONS.

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| | |
|---|---|
| D-TOLERANCE | .115 |
| D-MACHINE | .115 |
| D-WELDING | .115 |
| D-CASTING | .115 |
| E-STRUCTURE | .115 |
| E-SYSTEMS | .115 |
| NEXT ASSY | USED ON |
| APPLICATION | |

MATERIAL

FINISH

| REVISIONS | | | | |
|---|---|---|---|---|
| STR | DESCRIPTION | | DATE | APPROVAL |
| 00 | NEW ECN 115-391 | A.M | 6-5-85 | |
| 01 | ECN 115-436 | [illegible] | 10-7-85 | SC |
| 02 | ECN 4063 | [illegible] | 3/7/86 | SC |
| 03 | ECN 4051 | DMD | 3/21/86 | SC |
| 04 | ECN 4102 | R.A.R. | 4/29/86 | SC |
| 05 | ECN 4318 | [illegible] | 9/18/86 | SC |
| 06 | ECN 4697 | [illegible] | 9/17/86 | SC |
| 07 | ECN 4890 | VS | 12/86 | SC |
| 08 | ADDED NOTES 1 & 2 ECN 4965 | [illegible] | 1/9/87 | SC |
| 09 | ECN 5969 | AR | 6-9-87 | SC |

| J26 | P26 | | | P26 | J26 | |
|---|---|---|---|---|---|---|
| | 1 | 1 | | | 2 | 2 | |
| J108-2 | 3 | 3 | TxD | | 4 | 4 | |
| J108-3 | 5 | 5 | RxD | | 6 | 6 | |
| J108-4 | 7 | 7 | RTS | | 8 | 8 | |
| J108-5 | 9 | 9 | CTS | | 10 | 10 | |
| J108-6 | 11 | 11 | DSR | | 12 | 12 | |
| J108-7 | 13 | 13 | SIGNAL GND | DTR | 14 | 14 | J108-20 |
| | 15 | 15 | | | 16 | 16 | |
| | 17 | 17 | | | 18 | 18 | |
| | 19 | 19 | | | 20 | 20 | |
| | 21 | 21 | | | 22 | 22 | |
| | 23 | 23 | | | 24 | 24 | |
| | 25 | 25 | | | 26 | 26 | |

RS232 CONN. (OPT)

NOTE: SOME SIGNALS CHANGE WHEN THE DUAL-CARDIOTACH OPTION IS INSTALLED AS SHOWN IN THE TABLE BELOW:

| SIGNAL AT: | WITHOUT DUAL-CARDIOTACH OPTION | WITH DUAL-CARDIOTACH OPTION |
|---|---|---|
| J102-1 ↔ J11-1 | OPEN CIRCUIT | "HR2 MODE" |
| J102-19 ↔ J11-14 | OPEN CIRCUIT | "HR2 PENLIFT 2" |
| J102-22 ↔ J11-20 | "EXT FHR" | "±1.2V HR2" |
| J102-23 ↔ J11-22 | "EVENT ↑" | "HR2 XFER Ø" |

ON GERMAN MONITORS ONLY

NOTE 1: ONE .01 μF CAPACITOR IS CONNECTED BETWEEN THE "LA" TERMINAL OF J107 & CHASSIS GND. ANOTHER .01 μF CAPACITOR IS CONNECTED BETWEEN THE "RL" TERMINAL OF J107 & CHASSIS GND. (REV 106)

ON GERMAN MONITORS ONLY

NOTE 2: THE CONNECTIONS BETWEEN J2 PINS 2, 5 & 4 AND J7 ARE SURROUNDED BY AN OVERALL SHIELD WHICH IS CONNECTED TO GL5. (REV 108)

| | | | |
|---|---|---|---|
| DRAWN | A.M. | DATE | 6-9-83 |
| CHECKED | | DATE | |
| ENGR | | DATE | |
| MFG | | DATE | |

COMETRICS® MEDICAL SYSTEMS, INC.

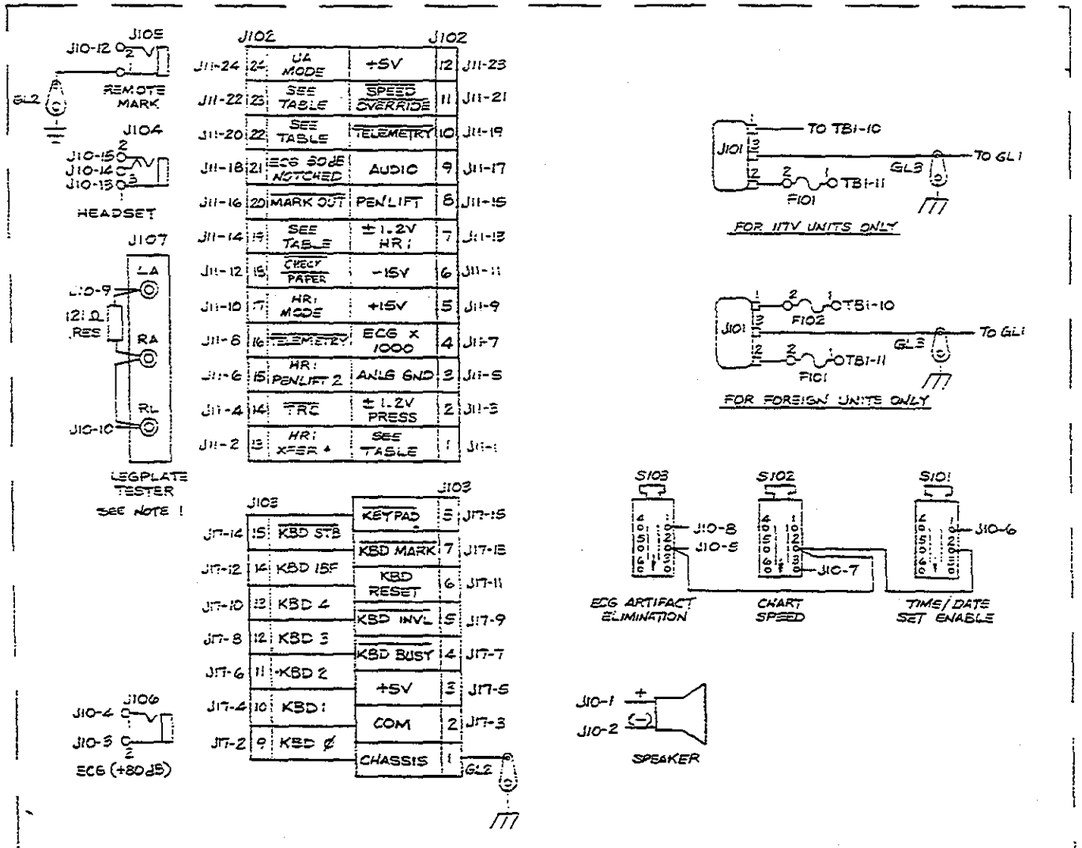
TITLE: 115 OVERALL WIRING DIAGRAM

| SIZE | DRAWING NUMBER | REV |
|---|---|---|
| D | 5977AA | 09 |

SCALE — SHEET 1 OF 2

| REVISIONS | | | |
|---|---|---|---|
| SYM | DESCRIPTION | DATE | APPROVAL |
| | | | |

REAR PANEL




/// OPTIONAL CONNECTOR FOR RS232 REAR PANEL

| CONNECTION OF CAPACITORS C2 AND C3 ON TB1 SEE SHEET 1 | | |
|---|---|---|
| LINE VOLTAGE | C2 LEAD CONNECTIONS | C3 LEAD CONNECTIONS |
| 100V | FROM TB1-6 TO TB1-10 | FROM TB1-7 TO TB1-11 |
| 117V | FROM TB1-6 TO TB1-10 | FROM TB1-9 TO TB1-11 |
| 220V | FROM TB1-2 TO TB1-10 | FROM TB1-8 TO TB1-11 |
| 240V | FROM TB1-2 TO TB1-10 | FROM TB1-9 TO TB1-11 |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| | | |
|---|---|---|
| D7700AB | 115 | MATERIAL |
| D7696AB | 115 | |
| D7691AB | 115 | |
| D7667AB | 115 | |
| 5977AB | 115 | FINISH |
| 5997AB | 115 | |
| NEXT ASSY | USED ON | |
| APPLICATION | | |

DRAWN Paul DATE 5/31/82
CHECKED DATE 3/31/82
ENGINEER DATE 3/31/82
APPROVED DATE 3/31/82
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ±
2 PLACE DECIMALS ± X.
3 PLACE DECIMALS ±
ANGLES ±

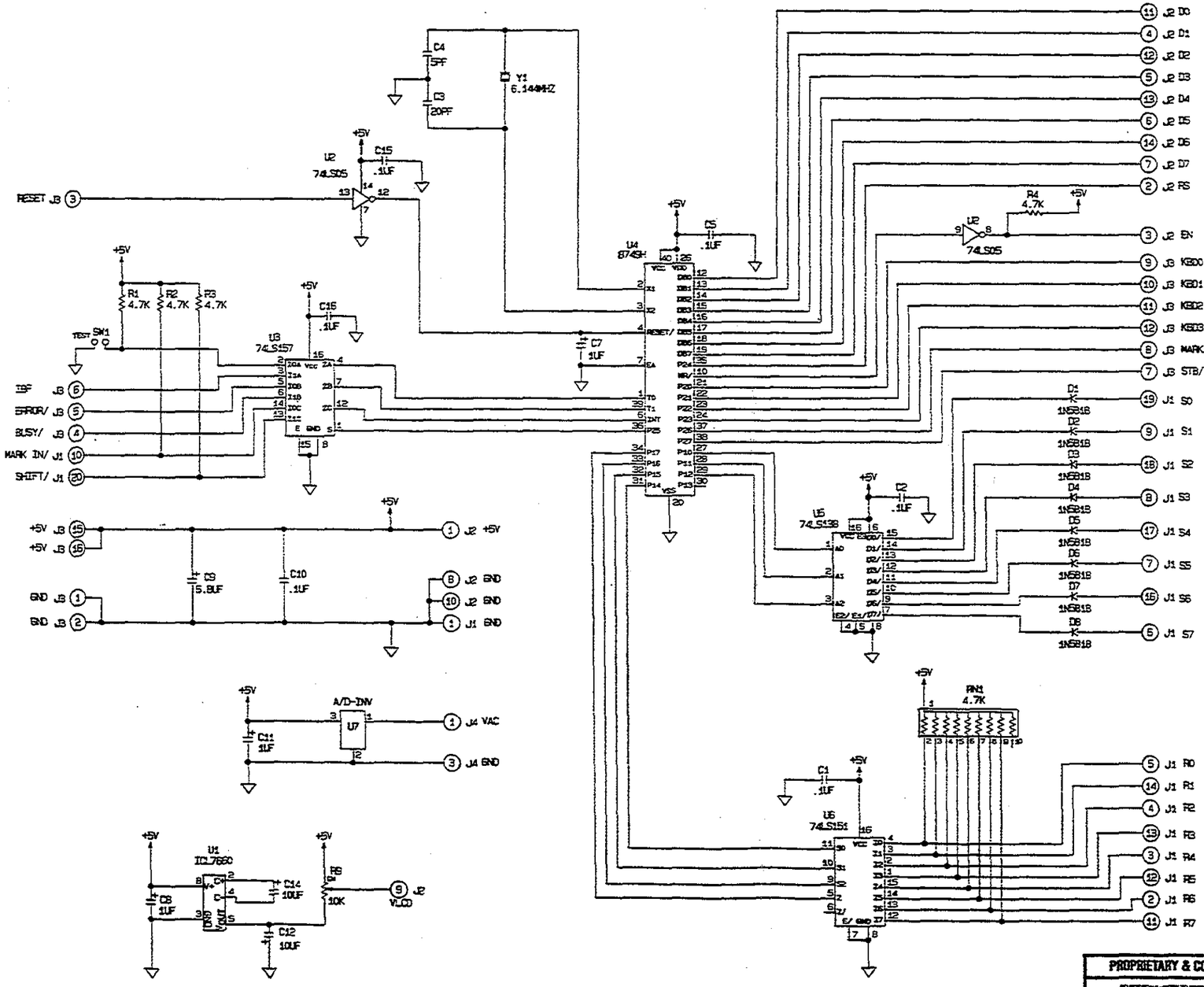
CORONETICS® MEDICAL SYSTEMS, INC. MARKET HIGHTON, MA. WILLIAMSFORD, CONNECTICUT

TITLE 115 OVERALL WIRING DIAGRAM

SIZE D | DRAWING NUMBER 5977AA | REV 09

SCALE NONE | SHEET 2 OF 2

| REV | ECN | DESCRIPTION | DFT | DATE | CHKD | APPD |
|---|---|---|---|---|---|---|
| 02 | 5883 | REDRAWN FOR CLARITY | SAS | 7-87 | | |




| HIGEST COMP. REF. DESIG. | UNUSED |
|---|---|
| C16 | C6 C13 |
| R9 | R6, 7, 8 |
| D8 | |
| U7 | |
| SW1 | |
| Y1 | |
| RN1 | |

NOTES: UNLESS OTHERWISE SPECIFIED

1. RESISTANCE IS IN OHMS.
2. ALL RESISTORS ARE 1/4W 5%.
3. LOW TRUE SIGNALS ARE FOLLOWED BY A SLASH. EX: RESET/

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| | | |
|---|---|---|
| DRAWN | B. LABU | DATE 2-20-86 |
| CHECKED | | DATE |
| ENGINEER | | DATE 2-20-86 |
| APPROVED | | DATE 4-8-86 |

CORDMETRICS® MEDICAL SYSTEMS, INC.
WALLINGFORD, CONNECTICUT

TITLE: KEYBRD PROCESSOR SCHEMATIC

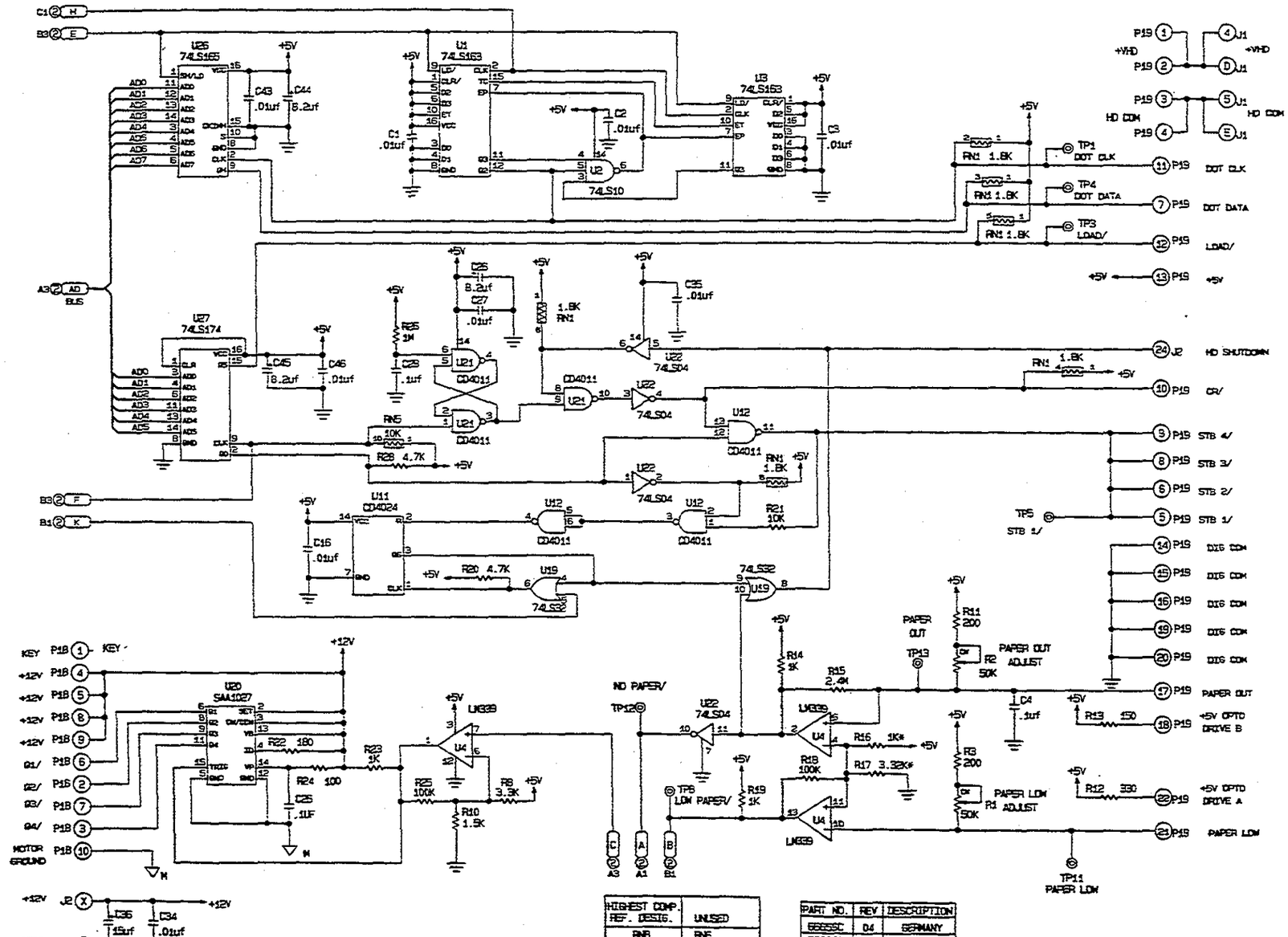
| MATERIAL | FINISH |
|---|---|
| | |

| SIZE | DRAWING NUMBER | REV |
|---|---|---|
| D | 6180AC | 02 |

SCALE 1:1 SHEET 1 OF 1

6180A 2116
NEXT ASSY USED ON
APPLICATION

| REV | ECN | DESCRIPTION | DFT | DATE | CHKD | APP |
|---|---|---|---|---|---|---|
| * | 5873 | SEE E.C.N. | SAS | 7/87 | | |
| (C) | 5902 | "C" NEW | VS | 9/87 | | |




NOTES: UNLESS OTHERWISE SPECIFIED

1. RESISTANCE IS IN OHMS.
2. * DENOTES ⅛W, 1% RESISTOR.
3. ALL RESISTORS ARE ¼W, 5%.
4. LOW TRUE SIGNALS ARE FOLLOWED BY A SLASH. EX: RESET/ .

| HIGHEST COMP. REF. DESIG. | UNUSED |
|---|---|
| RN8 | RN6 |
| TP15 | TP6 |
| R35 | R5, 6 |
| U31 | U15, 16, 18 23-25, 30, 31 |
| C50 | C20, 21, 23, 29-33, 37-42 |

| PART NO. | REV | DESCRIPTION |
|---|---|---|
| 6665SC | 04 | GERMANY |
| 6665TC | 04 | FRANCE |
| 6665VC | 04 | EUROPE |
| 6665AC | 04 | DOMESTIC |
| 6665UC | 03 | JAPAN |
| 6665NC | 04 | SPANISH |
| 6665YC | 04 | JAPAN |
| 6665XC | 04 | SPANISH |
| 6665ZC | 00 | FRENCH #3 |

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| | | |
|---|---|---|
| 6665TAB | 11 E | |
| NEXT ASSY | USED ON | |
| APPLICATION | | |

| | | |
|---|---|---|
| J.C. | | 12-9/8 |
| | | 12-9/8 |
| S.C. | | 12-9/8 |
| S.C. | | 12-9/8 |

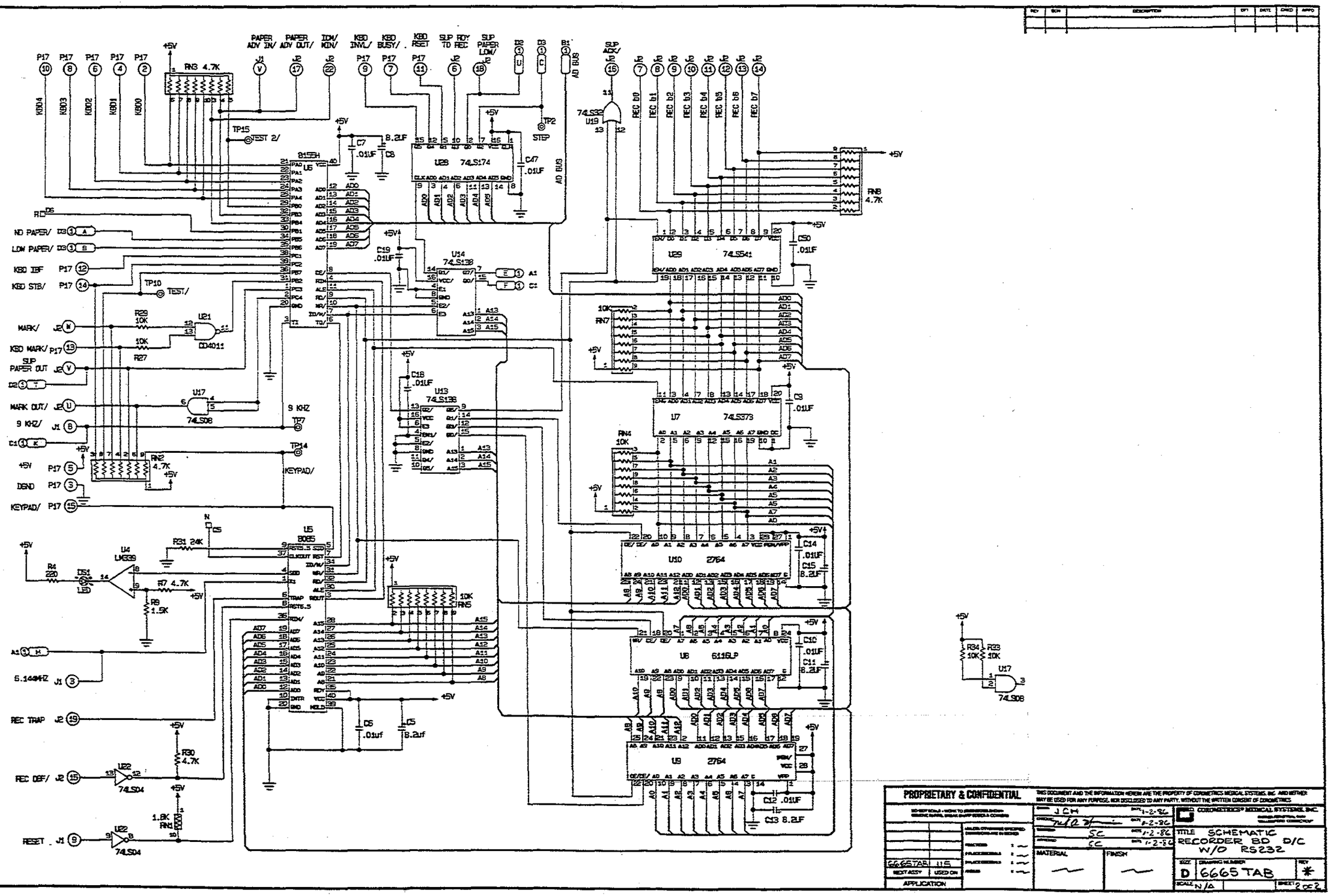
MATERIAL: X FINISH: X

COROMETRICS® MEDICAL SYSTEMS, INC.

TITLE: SCHEMATIC RECORDER BRD D/C W/O RS232

SIZE D | DRAWING NUMBER 6665TAB | REV *

SCALE: | SHEET 1 OF 2

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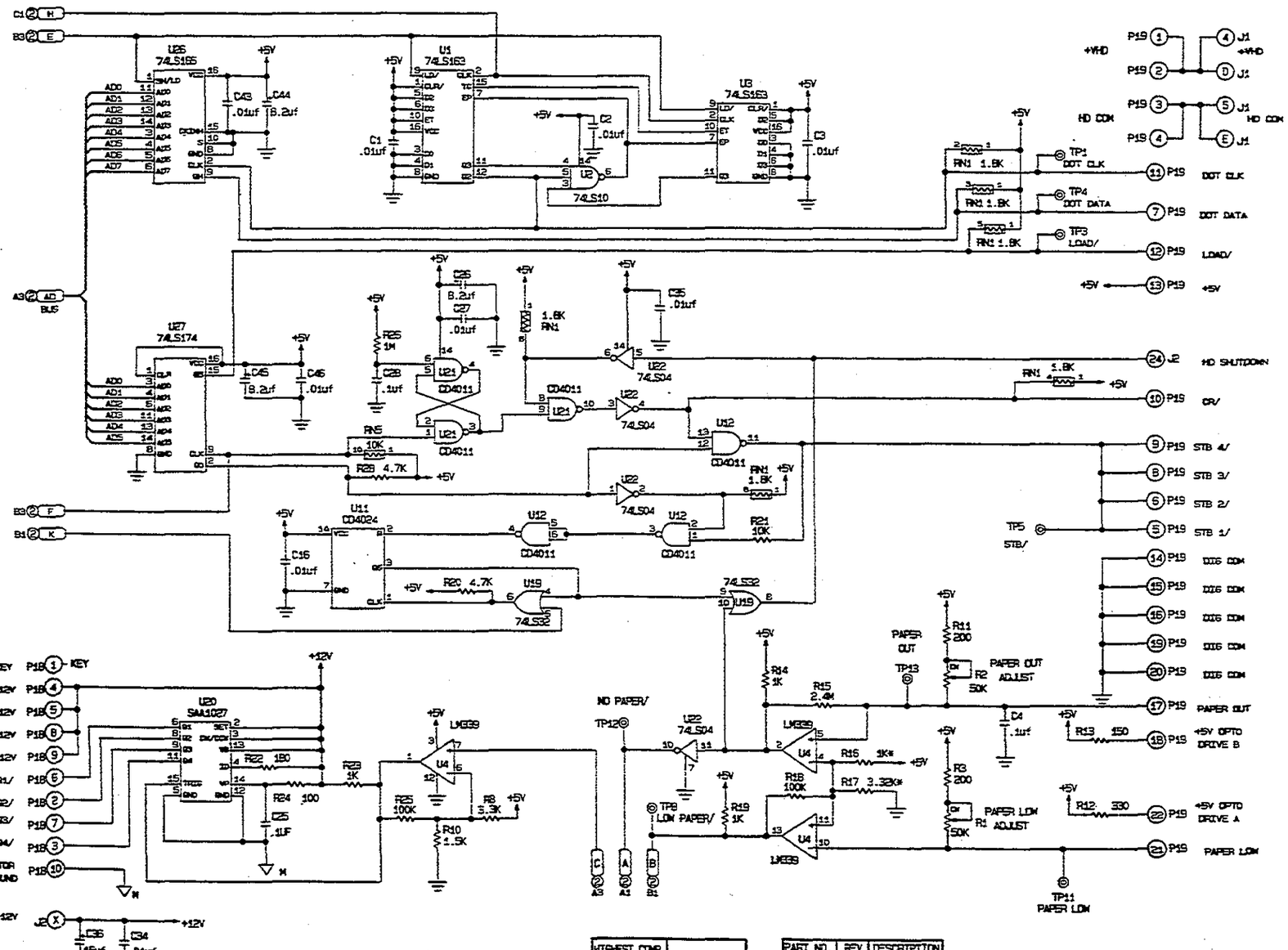
COROMETRICS® MEDICAL SYSTEMS, INC.

TITLE SCHEMATIC RECORDER BD D/C W/O RS232

SIZE D | DRAWING NUMBER 6665 TAB | REV *

SCALE N/A | SHEET 2 OF 2

| REV | ECN | DESCRIPTION | BY | DATE | CHKD | APPD |
|---|---|---|---|---|---|---|
| * | 6873 | SEE ECN | SAS | 7-87 | | |
| 00 | 5902 | "XC" NEW | LS | 4/87 | TK | DO |




NOTES: UNLESS OTHERWISE SPECIFIED

1. RESISTANCE IS IN OHMS.
2. * DENOTES ½W. 1% RESISTOR.
3. ALL RESISTORS ARE ¼W. 5%.
4. LOW TRUE SIGNALS ARE FOLLOWED BY A SLASH. EX: RESET/ .

| HIGHEST COMP. REF. DESIG. | UNUSED |
|---|---|
| R36 | R31, 33, 34 |
| D50 | |
| U31 | |
| TP15 | TP5 |
| RN8 | |

| PART NO. | REV | DESCRIPTION | |
|---|---|---|---|
| 6666RC | 05 | GERMANY | |
| 6666SC | 05 | FRANCE | |
| 6666TC | 05 | EUROPE | |
| 6666UC | 05 | DOMESTIC | |
| 6666UC | 04 | JAPAN | |
| 6666VC | 02 | SPANISH | 1/3DH |
| 6666WC | 02 | SPANISH | 1/2DH |
| ~~6666~~XC | 00 | FRENCH | 1/3DH |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| | | |
|---|---|---|
| DRAWN | JC | 12-86 |
| CHECKED | mdCH | 12-8-86 |
| ENGINEER | SC | 12-86 |
| APPROVED | SC | 12-86 |

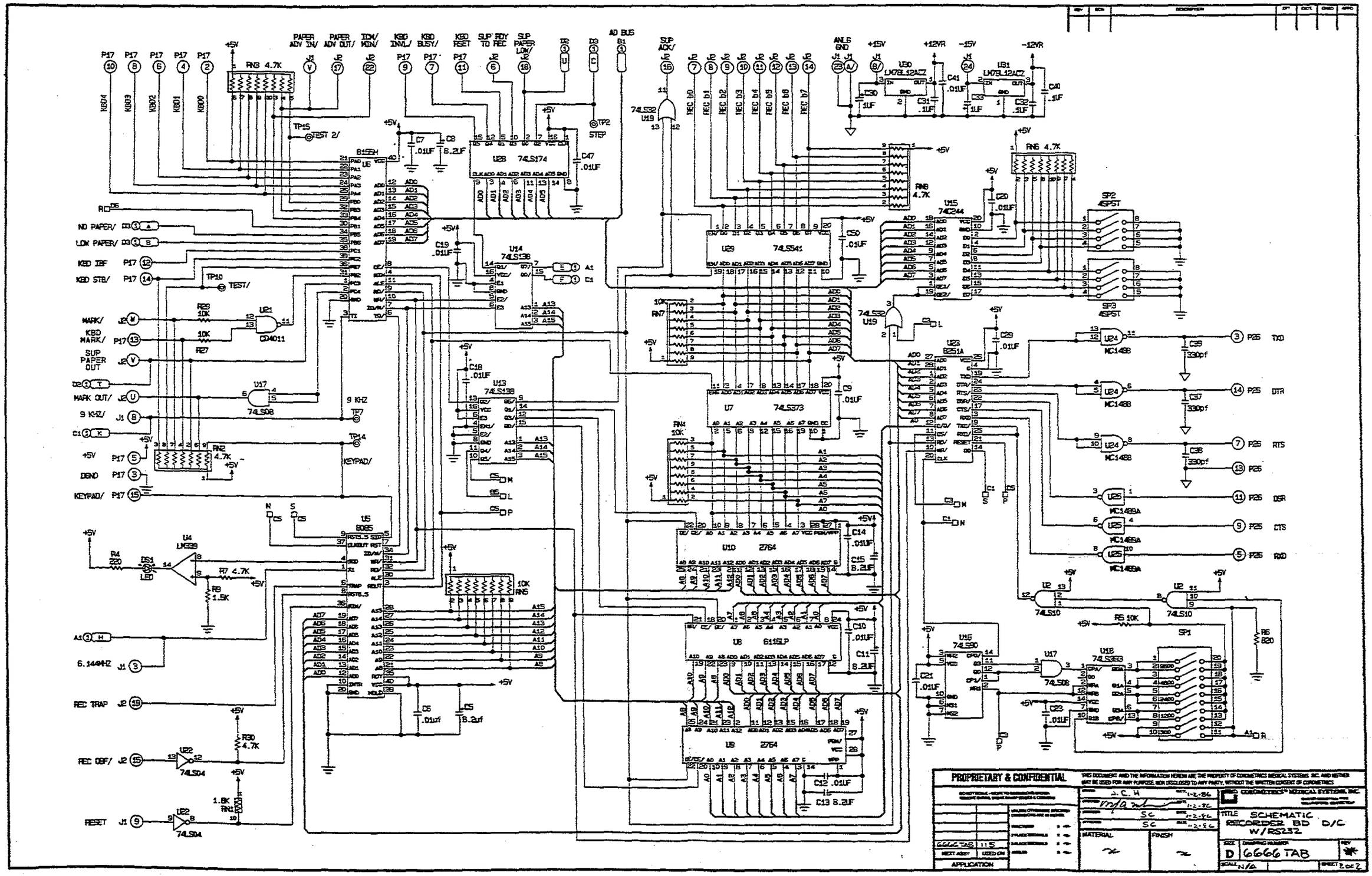
COROMETRICS® MEDICAL SYSTEMS, INC.

TITLE: SCHEMATIC RECORDER 8D D/C W/RS232

MATERIAL | FINISH

| SIZE | DRAWING NUMBER | REV |
|---|---|---|
| D | 6666 TAB | * |

SCALE: N/A | SHEET: 1 OF 2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COMETRICS MEDICAL SYSTEMS, INC.
TITLE SCHEMATIC RECORDER BD D/C W/RS232
SIZE D
6666 TAB
SCALE N/A
SHEET 2 OF 2
74LS32
74LS174
74LS138
74LS541
74LS373
74LS08
74LS04
74LS10
74LS244
74LS390
74LS393
CD4011
2764
6116LP
8085
8255H
LM339
MC1488
MC1489A
B251A
LM78L12ACZ
4SPST
330pf
P25 TXD
P25 DTR
P25 RTS
P25
P25 DSR
P25 CTS
P25 RXD

| REVISIONS | | | |
|---|---|---|---|
| SYM | DESCRIPTION | DATE | APPROVAL |
| * | NEW PCB ECN 4032 45K | | |
| | | | |
| | | | |

| DWG NO | REV | USED ON ASSEMBLY | DESCRIPTION |
|---|---|---|---|
| D6709AC | 02 | D6709A | ENGLISH |
| D6709BC | 02 | D6709B | EUROPEAN |
| D6709CC | 02 | D6709C | JAPANESE |
| D6709DC | 02 | D6709D | FRENCH |
| D6709EC | 02 | D6709E | GERMAN |

NOTES: UNLESS OTHERWISE SPECIFIED,
1. ALL RESISTANCE IS IN OHMS (Ω).
2. ALL CAPACITANCE IS IN MICROFARADS (μF).
3. ALL RESISTORS ARE 1/4W, 5%.
4. * DENOTES 1/8W, 1% RESISTORS.

□ DENOTES PCT SQUARE SIDE.

○ DENOTES PCT CIRCLE SIDE.

| | |
|---|---|
| NOT USED | |
| RES. NETWORK | RN8 RN9 |
| TEST POINTS | TP5[illegible] |
| [illegible] | U3[illegible] |
| CAPACITORS | C50 C[illegible] |
| RESISTORS | R35 R5, R6 |

PROPRIETARY & CONFIDENTIAL

| | |
|---|---|
| MATERIAL | |
| FINISH | |
| 6709 7XX | |
| NEXT ASSY | USED ON |
| APPLICATION | |

CORNOGRAPHICS MEDICAL SYSTEMS, INC.

TITLE: 115 RECORDER BOARD SCHEMATIC W/O RS232

SIZE D | DRAWING NUMBER 6709 TAB | REV

SCALE NONE | SHEET

| REVISIONS | | | |
|---|---|---|---|
| SYM | DESCRIPTION | DATE | APPROVAL |
| * | ECN 9632 | 9/85 | |

KBD RESET
KBD BUSY
KBD INVL
+5V
KBD0
KBD1
KBD2
KBD3
KBD4
DIGITAL GND
RN3 4.7K
P17
U6 8155
PA0
PA1
PA2
PA3
PA4
PB3
PB4
PB0
PB1
PB7
PB5
PB6
PB2
PC1
PC2
PC3
PC4
AD BUS
RESET
WR
ALE
IO/M
HOLD
HLDA
INTR
SOD
X1
TRAP
RST 6.5
RST 5.5
SID
PAPER ADV IN
PAPER ADV OUT
10 CM/MIN
PAPER OUT
MARK OUT
KEYPAD
TP15 "TEST 2"
TEST
TP9
TP10
MARK
KBD MARK
KBD ISF
KBD STB
R29 10K
R27 10K
U21 4011B
NO PAPER
LOW PAPER
TO SHEET 1
T (SHEET 1)
U17 74LS08
TP14 KEYPAD
TP7 9KHz
RN2 4.7K
TO SHEET 1 K
9KHz
R4 220
DS1
R7 4.7K
R31 24K
R9 1.5K
U4 LM339
(RST7.5 P5)
TO SHEET 1 H
TP6 6.144 MHz
6.144 MHz
REC TRAP
REC DSR
RESET
U22 74LS08
RN1 2.2K
R30 2.2K
C46 .01
C49 .68
C7 .01
C8 8.2
C5 5.2
C6 .01
+10V
CLK COM
SHIP RDY TO REC
SHIP XMTR LOW
TP2 "STEP"
C TO SHEET 1
U (SHEET 1)
U28 74LS174
CLK RD0 RD1 RD2 RD3 RD4 RD5 RD6 RD7
C47 .01
E F TO SHEET 1
U14 74LS138
A13 A14 A15 E1 E2 E3 O7 O0
C19 .01
U13 74LS158
A15 A14 A13 B A 1A 1B 2A 2B 1Y 2Y
C18 .01
HOLD ACK
U19 74LS32
C24 .01
REC b0 REC b1 REC b2 REC b3 REC b4 REC b5 REC b6 REC b7
RN8 4.7K
U29 74LS541
D0 D1 D2 D3 D4 D5 D6 D7
EN
C50 .01
RN7 10K
AD BUS (DATA BUS)
U7 74LS373
ENABLE
C9 .01
RN4 10K
A BUS (ADDRESS BUS)
U10 2764
U9 2764
C12 .01
C13 8.2
C14 .01
C15 8.2
U8 6116
C10 .01
C11 8.2
L M
M L

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| | | | |
|---|---|---|---|
| MATERIAL | | | COROMETRICS MEDICAL SYSTEMS, INC. |
| FINISH | | | TITLE 115 RECORDER BOARD SCHEMATIC W/O PS232 |
| 6709TAB 115 | | | SIZE D DRAWING NUMBER 6709TAB REV * |
| NEXT ASSY | USED ON | | SCALE NONE SHEET 1 OF 1 |
| APPLICATION | | | |

| REV | ECN | DESCRIPTION | DFT | DATE | CHKD | APPD |
|---|---|---|---|---|---|---|
| * | 6968 | SEE ECN | — | — | — | — |
| * | 6947 | CHK TO AGREE WITH ASSY | MF | 7/16/87 | BS | |

| PART NO | REV. | DESCRIPTION |
|---|---|---|
| D6802MC | 01 | |
| D6802JC | 01 | JAPANESE |

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CORMETRICS® MEDICAL SYSTEMS, INC

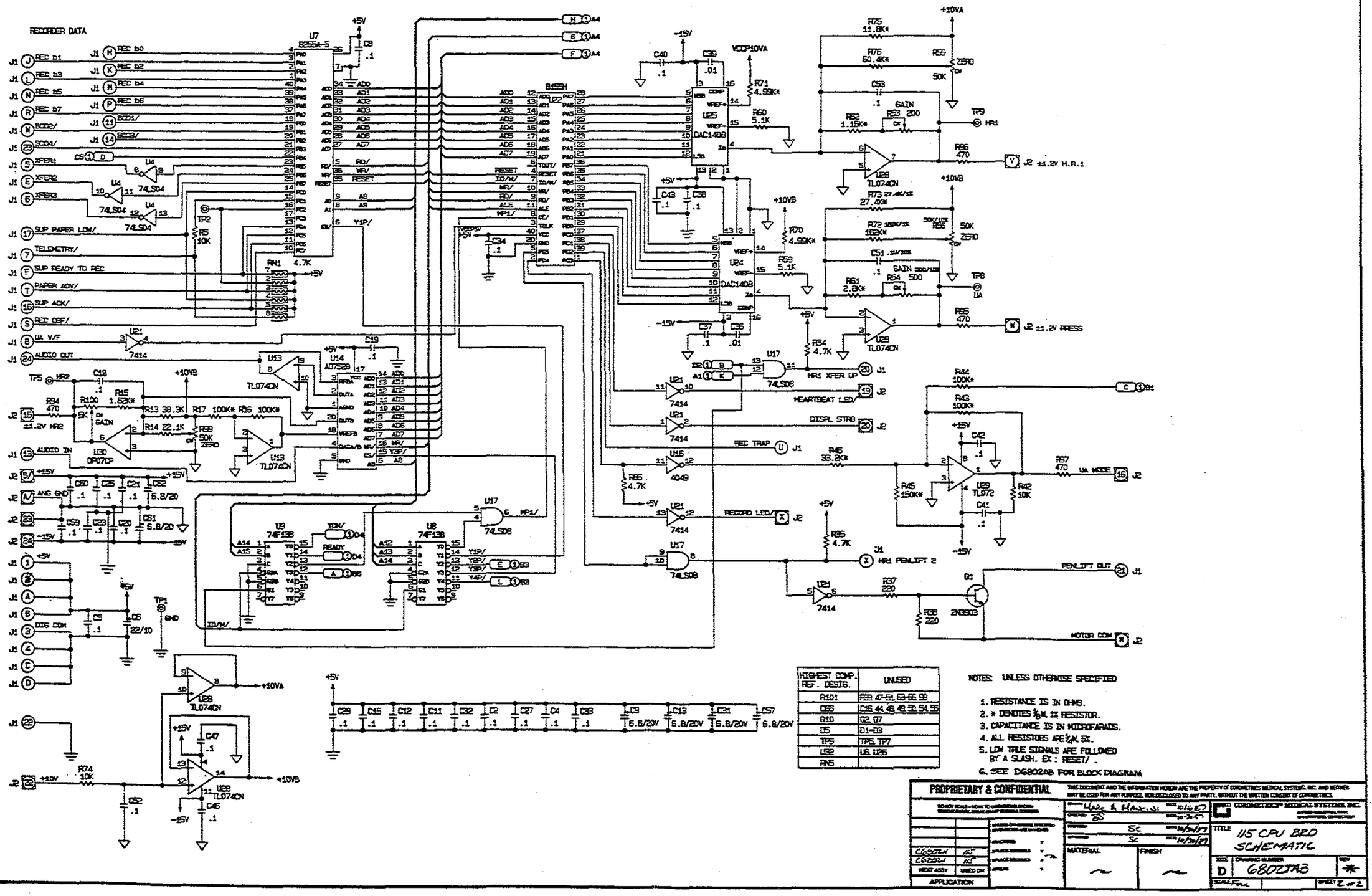
| | | |
|---|---|---|
| DRAWN | MF | 10/5/87 |
| CHECKED | BS | 10-30-87 |
| ENGINEER | SC | 10/30/87 |
| APPROVED | SC | 11/20/87 |

TITLE: 115 CPU BRD SCHEMATIC

MATERIAL | FINISH

SIZE D | DRAWING NUMBER 6802TAB | REV *

SCALE | SHEET 1 OF 2




| HIGHEST COMP. REF. DESIG. | UNUSED |
|---|---|
| R101 | R59 47-51 63-66 98 |
| C66 | C45 44 48 49 50 54 55 |
| R10 | G2 G7 |
| D5 | D1-D3 |
| TP5 | TP6 TP7 |
| U32 | U6 U26 |
| RN5 | |

NOTES: UNLESS OTHERWISE SPECIFIED

1. RESISTANCE IS IN OHMS.
2. * DENOTES ⅛W, 1% RESISTOR.
3. CAPACITANCE IS IN MICROFARADS.
4. ALL RESISTORS ARE ¼W, 5%.
5. LOW TRUE SIGNALS ARE FOLLOWED BY A SLASH. EX: RESET/ .
6. SEE DG802AB FOR BLOCK DIAGRAM.

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COROMETRICS® MEDICAL SYSTEMS, INC.

TITLE: 115 CPU BRD SCHEMATIC

MATERIAL: ~ FINISH: ~

SIZE D | DRAWING NUMBER 6802TA3 | REV *

SCALE FULL | SHEET 2 of 2

| REV | ECN | DESCRIPTION | DFT | DATE | CHKD | APP |
|---|---|---|---|---|---|---|
| * | 4452 | NEW | LOK | 9/3/85 | | |
| 01 | 5175 | MADE TO AGREE WITH ASSY'S | MJM | 10/31/85 | BS | |
| 02 | 5318 | CKL TO AGREE W/ASSY | | 3/14/86 | | |
| 03 | 6013 | RMV UNUSED CIRCUIT FROM U17-11 | | 11/26/86 | LL | |

NOTES: (UNLESS OTHERWISE SPECIFIED)

1 — ALL RESISTANCE IS IN OHMS (Ω)
2 — ALL CAPACITANCE IS IN MICROFARADS (μF)
3 — ALL RESISTORS ARE 1/4 W, 5%
4 — # DENOTES 1/8 W, 1% RESISTORS
5 — □ DENOTES PC7 SQUARE SIDE
6 — ○ DENOTES PC7 CIRCLE SIDE
7 — ⬡ DENOTES P26
8 — FOR BLOCK DIAGRAM SEE D6808BB.

| | | | | | | |
|---|---|---|---|---|---|---|
| 6808MC | 03 | D6808M | GERMAN | RESISTOR NETWK | RN8 | |
| 6808LC | 03 | D6808L | FRENCH | TEST POINTS | TP5 | |
| 6808KC | 03 | D6808K | ENGLISH | IC'S | U31 | |
| 6808JC | 03 | D6808J | DOMESTIC | CAPACITORS | C30 | |
| PART NO. | REV | NEXT ASSY | DESCRIPTION | RESISTORS | R35 | R31, 33, 34 |
| | | | LAST REF. DES. # USED | | | #NOT USED |

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COROMETRICS® MEDICAL SYSTEMS, INC.

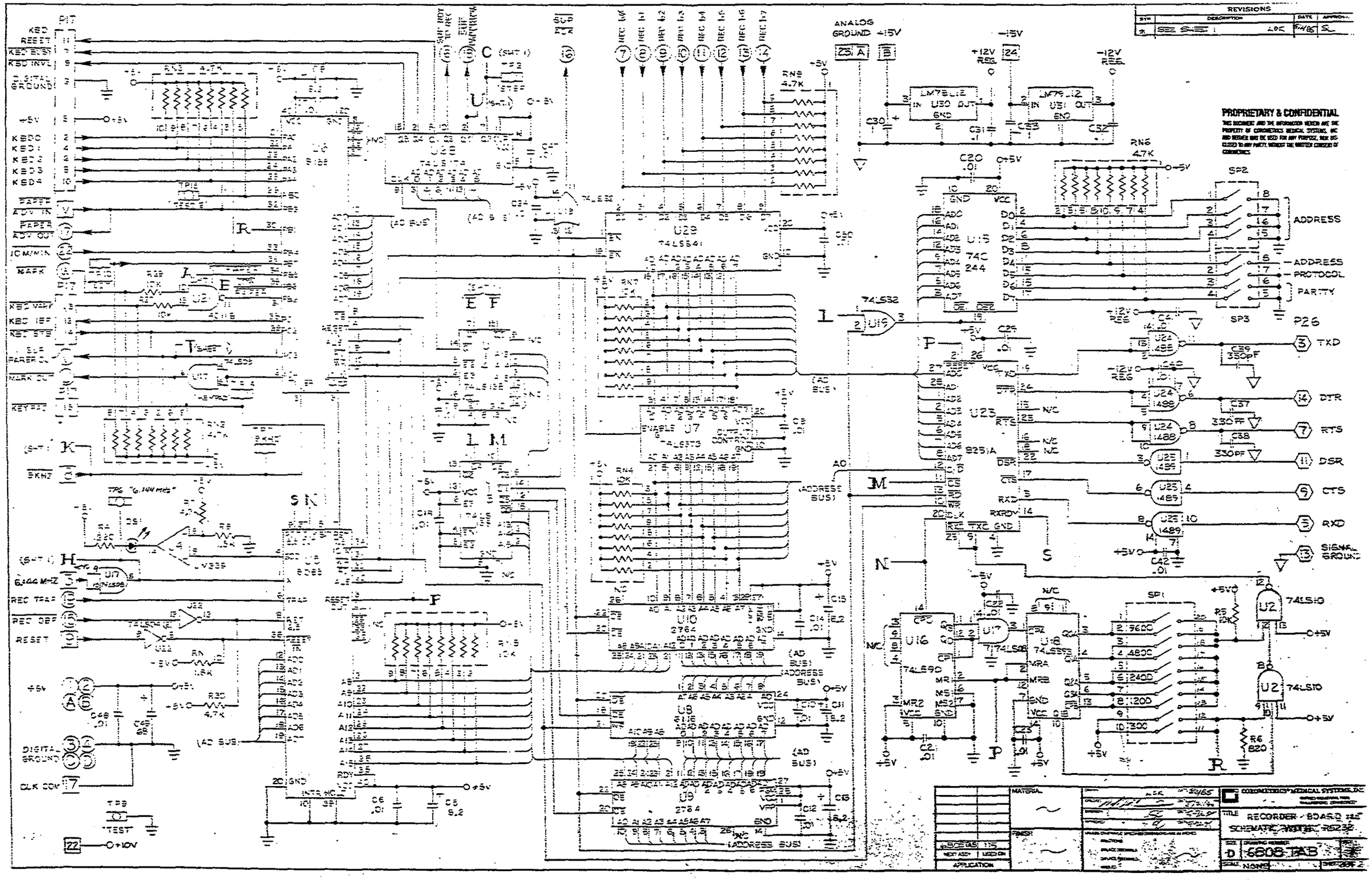
| | | | |
|---|---|---|---|
| 6808TAB | 115 | | |
| NEXT ASSY | USED ON | | |
| APPLICATION | | | |

| | | |
|---|---|---|
| LOK | 9/3/85 | |
| Pollock | 9/3/85 | |
| | 3-24-8 | |
| | 3-24-8 | |

TITLE 115 RECORDER BRD. SCHEMAT. WITH RS232

| MATERIAL | FINISH | SIZE | DRAWING NUMBER | REV |
|---|---|---|---|---|
| | | D | 6808 TAB | * |

SCALE NONE | SHEET 1 OF 2


REVISIONS
PROPRIETARY & CONFIDENTIAL
ADDRESS
PROTOCOL
PARITY
TXD
DTR
RTS
DSR
CTS
RXD
SIGNAL GROUND
RECORDER - BOARD
SCHEMATIC
6808-TAB

| REV | ECN | DESCRIPTION | BY | DATE | CHKD | APPD |
|---|---|---|---|---|---|---|
| 00 | 5637 | NEW | | | | |
| 01 | 5770 | SEE ECN | CRJ | 9-20-87 | | |
| 00 | 5834 | NEW BC SCHM | MA | 11-4-87 | MA | DAL |
| 01 | 5918 | CHG TO AGREE W/ASSY | MA | 11-4-87 | MA | DAL |
| 02 | 5966 | CHG TO AGREE W/ASSY | JC | 12-8-87 | MA | MA |
| 03 | 5972 | CHG TO AGREE W/ASSY. | JA | 12-10-87 | BS | MA |
| 04 | 6102 | SEE ECN | JC | 1-28-88 | BS | MA |
| 05 | 5947 | CHG TO AGREE W/ASSY | JC | 2-24-88 | MA | DS |

NOTES: UNLESS OTHERWISE SPECIFIED

1. RESISTANCE IS IN OHMS.
2. * DENOTES 1/8 W, 1% RESISTOR.
3. CAPACITANCE IS IN MICROFARADS.
4. ALL RESISTORS ARE 1/4 W, 5%.
5. FOR BLOCK DIAGRAM SEE C7180AB

| HIGHEST COMP REF. DESIG. | UNUSED |
|---|---|
| R46 | R10 |
| C45 | |
| U3 | |
| Y1 | |
| TP6 | |
| U13 | U13-U32 |
| D4 | |

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DO NOT SCALE - REFER TO DIMENSIONED DRAWING

| | | |
|---|---|---|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES |
| | | FRACTIONS ± |
| | | DECIMALS .X ± |
| | | .XX ± |
| | | .XXX ± |
| 7180B | n/a | ANGLES ± |
| NEXT ASSY | USED ON | |
| APPLICATION | | |

| | | |
|---|---|---|
| DRAWN | CAM VERNIE | 2-24-87 |
| CHECKED | | 5/16/87 |
| ENGINEER | | 5/16/87 |
| MFG | | 5/16/87 |

CORDMETRICS™ MEDICAL SYSTEMS, INC.

TITLE: SCHEMATIC CORRELATOR II BD

MATERIAL: X

FINISH: X

SIZE: D | DRAWING NUMBER: 7180BC | REV: 05

SCALE: 1:1 | 1:5 | SHEET 1 OF 1

| REV | ECN | DESCRIPTION | DFT | DATE | CHKD | APPD |
|---|---|---|---|---|---|---|
| * | 4443 | NEW | CV | 12.19.88 | SAS | |

TO KEYPAD/ KEYBOARD

P17

KBD0 KBD1 KBD2 KBD3 KBD4 KBD MARK IBF STB

KBDBUSY KBDINVL KBDRESET KEYPAD

MARK PAPER ADV IN

TO FRONT PANEL

TO CPU

REC B0 REC B1 REC B2 REC B3 REC B4 REC B5 REC B6 REC B7 SUP PAPER LOW SUP RDY TO REC MARK OUT IOM/KOM SUP PAPER OUT ACK B3 REC DEF C3 REC TRAP D6 RESET CHK PAPER

RES USART

U1 8155

U2 8255

U14 8255

U45 74LS244

U46 74LS541

U3 74HCT373

U4 74HCT373

U5 74HCT373

U15 8237

U16 8085

U7 6264

U8 74HCT244

U9 27512

U21 74HCT138

U22 74HCT138

U23 74HCT04

U24 74LS10

U25 74HCT02

U26 74LS10

U34 74HCT00

U35 CD4011

U36 CD4011

U37 74HCT74

U38 74LS14

U41 7404

U10 74HCT32

U12 74HCT08

U13 74HCT04

Y1 6.00MHZ

DS1 LED

DS SW1

ADO-AD7

A8-A15

ADO-A1

ADRO-ADR6

RES C1 CLK C2 MODE C2 LED A3 STEP BS RES

LOWPAPER NOPAPER C4

HLDA HRQ ADSTB READY DACKO DRQO RESET IOR MEMR MEMW IOW

REC DEF REC TRAP IO/M INTR RDY TRAP CLKOUT

R1 10K R2 10K R3 4.7K R4 4.7K R5 4.7K R6 4.7K R7 4.7K R8 10K R9 10K R10 4.7K R11 4.7K R12 4.7K R13 10K R14 10K R15 10K R16 10K R17 10K R18 10K R19 10K R20 10K R21 4.7K R22 470 R23 4.7K R24 4.7K R25 4.7K R26 4.7K R27 4.7K R52 4.7K R63 4.7K R64 1.5K R65 1K R66 1.5K R67 1K R79 10K

RN1 RN2 RN3 RN4 RN5 4.7K

C1 .1UF C2 .1UF C3 .1UF C4 68UF C5 .1UF C6 .1UF C7 .1UF C8 .1UF C9 .1UF C10 .1UF C11 .1UF C26 20PF

TP10 TP11 TP12

9MHZ

74HCT32 74HCT08 74HCT04 74HCT138 74HCT74 74HCT257 74HCT373 74HCT244 74LS14 74LS10 74HCT02 74HCT00 74HCT74 CD4011 74LS244 74LS541 74LS14 7404 8155 8255 8085 8237 6264 27512

NOTES: UNLESS OTHERWISE SPECIFIED

1. * DENOTES 1/8 W, 1% RESISTOR.
2. RESISTANCE IS IN OHMS.
3. ALL RESISTORS ARE 1/4 W, 5%.
4. FOR B AND D ASSEMBLIES OMIT T1, U20, Y2, U4 AND U5.

| HIGHEST COMP. REF. DESIG. | UNUSED |
|---|---|
| C28 | |
| Y2 | |
| RN8 | |
| DS1 | |
| U46 | |
| R79 | R13-19 |
| D1 | |
| VR2 | |
| TP12 | |

| PART NO. | REV | DESCRIPTION |
|---|---|---|
| 7383AC | 00 | SINGLE CARDIOTACH WITH NETWORK COMMUNICATION |
| 7383BC* | 00 | SINGLE CARDIOTACH WITHOUT NETWORK COMMUNICATION |
| 7383CC | 00 | DUAL CARDIOTACH WITH NETWORK COMMUNICATION |
| 7383DC* | 00 | DUAL CARDIOTACH WITHOUT NETWORK COMMUNICATION |

*NOTE: 7383 BC AND 7383 DC NOT RELEASED AT THIS TIME.

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DRAWN CAM VERNA 12/13/88

CHECKED SUSAN A. STROUD 12-14-88

ENGINEER

APPROVED Paul Stolle 12-21-88

COROMETRICS® MEDICAL SYSTEMS, INC.

MATERIAL — FINISH

NEXT ASSY 115 USED ON

APPLICATION

TITLE SCHEMATIC NETWORK RECORDER BD

SIZE D DRAWING NUMBER 7383TAB REV *

SCALE 1:1 SHEET 10F2

| REV | ECN | DESCRIPTION | DFT | DATE | CHKD | APPD |
|---|---|---|---|---|---|---|
| | 6494 | | | | | |

LATEST REV

| PART NO. | REV |
|---|---|
| 7383AC | 00 |
| 7383BC | 00 |
| 7383CC | 00 |
| 7383DC | 00 |

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DO NOT SCALE - WORK TO DIMENSIONS SHOWN
REMOVE BURRS, BREAK SHARP EDGES & CORNERS
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ± 1/64
2 PLACE DECIMALS ± .01
3 PLACE DECIMALS ± .005
ANGLES ± 1°
NEXT ASSY | USED ON
APPLICATION

DRAWN CAM VERNA 12/13/88
CHECKED Susan A Strong 12-N-88
ENGINEER [illegible] 12/14/88
SUPERVISOR [illegible] 12-21-88
MATERIAL | FINISH

COROMETRICS® MEDICAL SYSTEMS, INC.
WALLINGFORD, CONNECTICUT

TITLE SCHEMATIC
NETWORK RECORDER BD
SIZE D | DRAWING NUMBER 7383TAB | REV *
SCALE 1:1 | SHEET 2 of 2